## ORDER NO.CHM0606037CE

# **Service Manual**

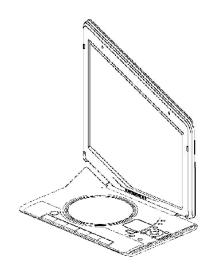
Portable DVD/CD PLAYER

**DVD-LX110EE / DVD-LX110GCS** 

**RAE1907Z-C Mechanism Series** 

Colour

(S).....Silver Type



**SPECIFICATIONS** 

**Specifications** 

Operating temperature

range:

Operating humidity range:

Region number:

Discs played / [8cm (3") or 12cm (5")]:

+5 to +35°C (+41 to +95°F)

5-85% RH (no condensation) Region No.3 (DVD-LX110GCS) Region No.5 (DVD-LX110EE)

 ${\bf DVD}~[{\bf DVD\text{-}Video},~{\bf DVD\text{-}Audio},~{\bf DivX}$ 

(EE only /\*6, 8)]

DVD-RAM [DVD-VR, JPEG(\*4,6,7), MP3(\*2,6), MPEG4(\*5,6), DivX (EE

only /\*6, 8)]

DVD-R [DVD-Video, DVD-VR,
JPEG(\*4,6,7), MP3(\*2,6), MPEG4(\*
5,6), DivX (EE only /\*6, 8)]
DVD-R DL (DVD-Video, DVD-VR)
DVD-RW [DVD-Video, DVD-VR,JPEG(\*4,6,7), MP3(\*2,6),
MPEG4(\*5,6), DivX (EE only /\*6, 8)]

+R/RW (Video)

+R DL (Video)

CD, CD-R/RW [CD-DA, Video-CD, SVCD(\*1), MP3(\*2, 6), WMA(\*3, 6), JPEG (\*4,6,7), MPEG4(\*5,6), DivX (EE only /\*6, 8), HighMAT Level 2 (Audio and Image)]

\*1: Conforming to IEC62107

\*2: MPEG-1 Layer3, MPEG-2 Layer3

\*3: Windows Media Audio Ver9.0 L3. / Not compatible with Multiple Bit Rate (MBR)

\*4: Exif Ver 2.1 JPEG Baseline files Picture resolution: between 160× 120 and 6144×4096 pixels (sub sampling is 4:0:0, 4:2:2, 4:2:0 or 4:4 :4)

\*5: MPEG4 data recorded with the Panasonic SD multi cameras or DVD recorders Conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system.

\*6: The total combined maximum number of recognizalbe audio, picture and movie contents and groups: 4000 audio, picture and movie contents and 400 groups.

\*7: Extremely long and slender pictures may not be displayed.

\*8: Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files.

Certified to the DivX Home Theater Profile.

**GMC (Global Motion** 

Compensation) is not supported.

PAL 625/50 PAL 525/60 NTSC

Signal system:

LCD screen:

11" (), -Si, TFT wide-screen LCD

VGA 800 × 480 × RGB pixels

Composite-video output//

input:

Output/input level: 1Vp-p (75

Output/input terminal:

Mini-jack ( 3.5mm)

Number of terminals: 1system (output/input selectable)

Audio output/input:

Output/input level: 1.5Vrms (1kHz, 0dB, 10k )

Output/input terminal:

Number of terminals:

Stereo mini-jack ( 3.5mm) 1system (output/input selectable)

Audio performance:

(1) Frequency response:

4Hz-22kHz (48kHz sampling) DVD (linear audio):

4Hz-44kHz (96kHz sampling)

4Hz-88kHz (192kHz sampling) DVD-Audio:

4Hz-20kHz CD audio:

(2) S/N ratio:

115dB CD audio:

(3) Dynamic range:

98dB DVD (linear audio): 97dB CD audio:

(4) Total harmonic distortion:

> 0.008% CD audio:

Digital audio output:

**Optical digital output:** Mini optical terminal

Number of terminals: 1system

(also used for audio output/ input)

SD Playback\*1,5,6

Picture Playback: JPEG\*2,3,7 Video Playback: MPEG4\*2,4

\*1 Useable memory capacities: 8MB, 16MB, 32MB, 64MB, 128MB, 256MB, 512MB, 1GB, 2GB

\*2 Total maximum number of recognizable picture and video files and folders

Picture: 4000 files and 398 folders Video: 4000 files and 398 folders

\*3 Extremely long and slender pictures may not be displayed.

\*4 MPEG4 data recorded with the Panasonic SD multi cameras or DVD recorders

Conforming to SD VIDEO specifications (ASF standard)/ MPEG4 (Simple Profile) video system/G.726 audio system.

\*5 SD card formatted with equipment conforming to SD File System specifications Ver.1.01 such as Panasonic SD multi cameras or DVD recorders (Conforming to FAT 12 standard and FAT 16 standard)

- miniSDTM card is supported. (miniSDTM adaptor is required.)
- **Conforming to SD Picture specifications** Picture resolution: between 160 × 120 and 6144 × 4096 pixels (Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4)

Headphone output:

Output:

Stereo mini-jack ( 3.5mm)

Number of terminals: 2systems

**Battery duration** 

-When brightness is set to "-5" while \*CGR-H713: Option

playing DVD 6 hours (CGR-H713) / 3

hours (CGR-H712)

\*Room temperature -When brightness is set to "0" while \*using headphones playing DVD 4 hours (CGR-H713) / 2

hours (CGR-H712)

-When brightness is set to "+5" while playing DVD 3 hours (CGR-H713) / 1.5

hours (CGR-H712)

-When LCD panel is off while DVD playing 12 hours (CGR-H713) / 6 hours

(CGR-H712)

-When brightness is set to "-5" while playing SD 7 hours (CGR-H713) / 3.5

hours (CGR-H712)

-When brightness is set to "0" while playing SD 5 hours (CGR-H713) / 2.5

hours (CGR-H712)

-When brightness is set to "+5" while playing SD 4 hours (CGR-H713) / 2

hours (CGR-H712)

-When LCD panel is off while SD playing 18 hours (CGR-H713) / 9 hours

(CGR-H712)

Battery recharge time / (at 20°C)

8 hours (CGR-H712) / 10 hours

(CGR-H713)

Pickup:

Wave length: 662nm/ 785nm (DVD/CD)

Laser power: CLASS 1M / CLASS 1M (DVD/CD)

Power supply: DC 12V (DC IN terminal) /

DC 7.2V (Exclusive battery

terminal)

23W (Unit only: 20W) **Power consumption** 

(Using included AC adaptor):

Power consumption in 0.3W

Standby mode

(Using included AC adaptor): Power consumption in 13W

Recharge mode

(Using included AC adaptor):

AC adaptor:

Power source: AC 110-240V, 50/60Hz

Power consumption: 36W DC output: 12V, 2A

Car DC adaptor:

DC output: 12V 2A (Vehicle with 12V battery

only)

Battery pack CGR-H712

(lithium ion):

Voltage: 7.2V

Capacity: 4500mAh

Dimensions (excluding 287.6(W)  $\times$  216.0(D)  $\times$  50.3\*(H) mm protrusions and battery): [1121/64" (W)  $\times$  833/64" (D)  $\times$  2" (H)]

\*30.5mm (113/64") at lowest point [D=221.7mm (823/32") including

battery]

[H=55.3mm (23/16") including

battery]

Mass

(including battery): approximately 1875g (66.13 oz) (without battery): approximately 1638g (57.77 oz)

solder:

This model uses lead free solder (PbF).

Note

Specifications are subject to change without notice.

Mass and dimensions are approximate.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS 2.0+ Digital Out" are trademarks of Digital Theater Systems, Inc.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and noncommercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video.

No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEG LA, LLC. See http://www.mpegla.com.

Portions of this product are protected under copyright law and are provided under license by ARIS/SOLANA/4C.

MPEG Layer-3 aud o becoding technology licensed from Fraunhofer I S and Thomson multimedia
HighMATIM and the HighNAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Official DivX\* Certified product
Plays all versions of DivX\* video (including DivX\*6) with
standard playback of DivX\* media files.
DivX DivX Certified, and associated agos are trademarks
of DivX, Inc. and are used under license.



# © 2006 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

## **⚠ WARNING**

This service information is designed for experienced recair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be service or repaired only by experienced professional technicians. Any attempt to service or repair the product or products death with in this service information by anyone else could result in serious injury or death.

# 1. Important Service Information

## **1.1. Notes**

When you replace EEPROM or exchange MAIN PCB, you have to take "Manual for customer" to the customer with unit. (also in the case of unit exchanges)

Please take and use "Manual for customer" from below.

- 1. Come with MAIN PCB or EEPROM (Service part).
- 2. Make a photocopy section 1.3. "Manual for customer" on this service manual.

"Manual for customer" has important information for "DivX Video-on-Demand Service" user. Please don't forget take it to the customer with unit!

## 1.2. About DivX

## 1.2.1. DivX

A video compression format developed by DivXNetworks, Inc. that compresses video files without any considerable loss of video quality.

## 1.2.2. About DivX Video-on-Demand Content

DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the on line instructions for purchasing DivX VOD content to enter the unit's registration code and register the unit. For more information about DivX VOD, visit www.divx.comvcd.

## Display the unit's registration code

("DivX Registration" in "Others" tab)



- We recommend that you make a note of this code for future reference.
- After playing DivX VOD content for the first time, another registration code is then displayed in 'DivX
  Registration'. Do not use this registration code to purchase DivX VOD content. If you use this code
  to purchase DivX VOD content, and then play the content on this unit, you will no longer be able to
  play any content that you purchased using the previous code.
- If you purchase DivX VOD content using a registration code different from this unit's code, you will
  not be able to play this content. ("Authorization Error" is displayed.)

## Regarding DivX content that can only be played a set number of times

Some DivX VOD content can only be played a set number of times. When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero. ("Rented Movie Expired" is displayed.)

#### When playing this content

- The number of remaining plays is reduced by one if
- -you turn off the unit or display "Setup" menu.
- -you press (■, -OFF). (Press [11] to stop play.)
- -you press [I◀ ►►] (Skip or search) etc. and arrive at another content or the start of the content being played.
- · Resume play (Stop) does not work.

## 1.3. Manual for Customer

## 2. SAFETY PRECAUTIONS

## 2.1. GENERAL GUIDELINES

- 1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- 3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

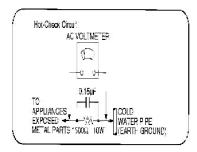
## 2.1.1. LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the

equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M  $\Omega$  and 5.2M  $\Omega$ . / When the exposed metal does not have a return path to the chassis, the reading must be .

## 2.1.2. LEAKAGE CURRENT HOT CHECK

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5k  $\Omega$ , 10 watts resistor, in parallel with a 0.15 F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe.



- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

# 3. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

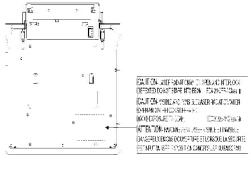
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

  Caution
  - Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

# 4. PRECAUTION OF LASER DIODE

#### CAUTION ACHTUNG: This amount utilizes a laser diode with the unit turned for it. Dieses Produkt enthalt eine Lasernicce invisible laser radiation is emitted from the pickup lens. Im eindeschalteten Zustand wird uns chtbare Wave length:6621m/785nm Lesersirah ung von der Laserinneit acgestrant. Max mum output radiation power from bickup; 100 $\mu$ Wellenlände: 6621m/7851m WYDE Maximale Straniungsleistung der Lasereinheit: 100 µ Laser radiation from the pickup tens is safety level, but be WAYDE sure the to low nga: Die Stranlungan der Läsereinheit ungefährlich, wenn 1. Do not disassemble the optical pickup unit, ancefolgende Punkte beachtet werden 1. Die Easereinheit nicht zerlegen, da die Straftung an radiation from exposed laser clode is dangerous. 2. Do not adjust the variable resistor on the bickup unit. It der freideletten Lasero ode defährlich ist. 2. Den werkeertig just erlen Einstellregler der Lasere nich yeas already ad usted. 3. Do not book at the focus lens using optical instruments. nicht verste len. 4. Recommend not to look at bickup lens for a long time. 3. Nicht in tiggtschen instrumenten in die Fokussierlines olicken. 4. Nicht über längere Zeit in die Fokussierlines blicken.



CAUTION!
THIS PRODUCT UT LISES A LASER
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN
THOSE SPECIFICALIEM MAY RESULT IN LAZARCOUS RADIATION EXPOSURE.

# 5. HOW TO REPLACE THE LITHIUM BATTERY

This model is using a lithium battery for the remote control ass'y.

#### NOTE:

The lithium battery is a critical component. (Type No.: CR2025 Manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

#### (For English)

#### CAUTION

Danger of explosion if pattery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

#### (For French)

#### PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explicsion. Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

#### (For German)

#### VORSICHT

Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom gleicher Typiersetzen

Verbrauchte Batterien beim Fachhändler oder einer Sammels: elle für Sonderstöffe abl efern.

#### (For Swedish)

## VARNING

Explosionsfara vid felaktigt batteribyte.

Anvand samma patterityp eller en ekv va ent typ som rekommenderas av apparatt liverkaren. Kassera använt batteri enligt fabrikantens instruktion.

#### (For Norwegian

## ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejjagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Lever de: brudle batteri tilbade til leverandaren.

#### (For Finnish)

## VAROITUS

Paristo voi räjähtää, ios se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan lyyöpiin Häyltä käytetty paristo valmistajan ohieiden mukaisesti.

# 6. Service caution based on legal restrictions

## 6.1. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation. The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86 F) more than that of the normal solder.

**Definition of PCB Lead Free Solder being used** 

The letter of "PbF" is printed either foil side or	
components side on the PCB using the lead free solder.	
(See right figure)	

Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used.(Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.

- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350+-30 degrees C (662+-86 F).

Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.

RFKZ03D01K-----(0.3mm 100g Reel) RFKZ06D01K-----(0.6mm 100g Reel)

RFKZ10D01K-----(1.0mm 100g Reel)

#### Note

## 7. HANDLING PRECAUTIONS FOR TRAVERSE DECK

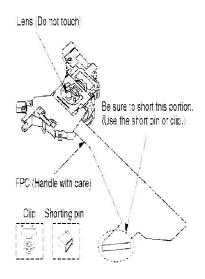
The laser diode in the optical pickup may break down due to potential difference caused by static electricity of clothes or human body.

So be careful of electrostatic break down during repair of the optical pickup.

## 7.1. Handling of optical pickup

- 1. Do not subject the optical pickup to static electricity as it is extremely sensitive to electrical shock.
- 2. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FPC Board). / When removing or connecting the short pin, finish the job in as short times as possible.
- 3. Be careful not to apply excessive stress to the flexible board (FPC Board).
- 4. Do not turn the variable resistor (Laser power adjustment). / It has already been adjusted.

<sup>\*</sup> Ingredient: tin (Sn) 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%



# 7.2. Grounding for electrostatic breakdown prevention

- 1. Human body grounding / Use the antistatic wrist strap to discharge the static electricity from your body.
- 2. Work table grounding / Put a conductive material (sheet) or steel sheet on the area where the optical pickup is placed and ground the sheet.

  Caution

The static electricity of your clothes will not be grounded through the wrist strap. So take care not to let your clothes touch the optical pickup.



# 8. DISASSEMBLY, REASSEMBLY AND SERVICE POSITION



Before trying to disassembling, reassembling or replacing parts, make sure the DC receptacle is disconnected; otherwise there is a danger of causing an electrical shock accident or injury.



The laser does not come on when the inner cover is opened. If the objective lens of the optical pick-up shines in red when the inner cover is opened, turn off the power immediately and check.



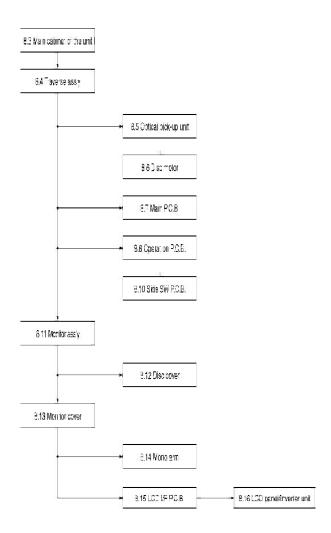
If you need to turn on the laser for any reason, such as playback inspection, never look directly at the laser light



When disassembly of the unit is needed, remove the disk from

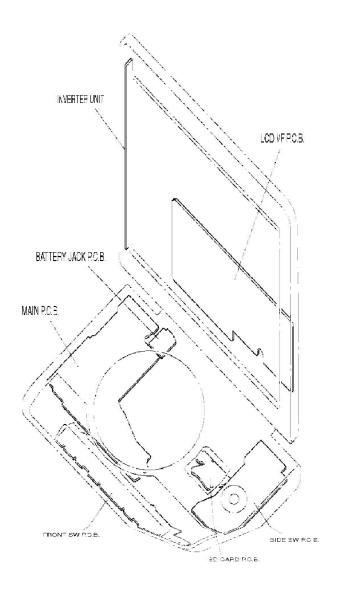
Use caution not to give damage to the LCD surface.

# 8.1. Disassembly



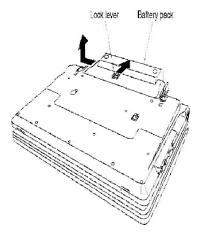
<Caution to be taken when disassembling and reassembling the unit>

# 8.2. P.C.B. location

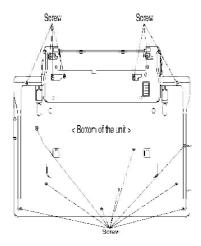


# 8.3. Main cabinet of the unit

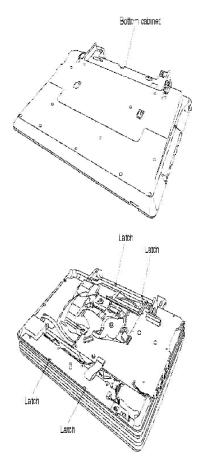
Release the lock lever and remove the battery pack in the direction of the arrow.



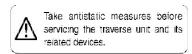
1. Remove the 16 screws from the bottom of the unit.



2. Release the latches and remove the bottom cabinet.

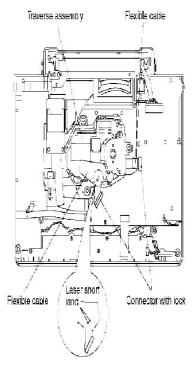


# 8.4. Traverse assembly



## 8.4.1. Removing traverse assembly

- 1. Solder the 2 laser short lands on the flexible cable.
- 2. Unlock the connectors and remove the flexible cables.



## 8.4.2. Reinstalling traverse assembly

- 1. Reinstall the traverse assembly to the specified pin of the unit.
- 2. Reinstall the flexible cable of the optical pickpup unit and lock it securely.
- 3. Remove the solder of each laser short land of the flexible cable.

  Caution:

Remove the solders completely: otherwise the laser diode won't emit light.

4. Reinstall the spindle flexible cable as shown figure.

## 8.5. Optical pick-up unit

## 8.5.1. Removing optical pick-up unit

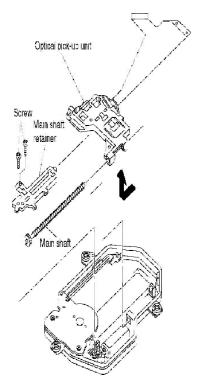
Caution to be taken when replacing optical pick-up unit.

- Take antistatic measures before servicing the optical pick-up unit.
- 2. Use a clean work bench which is free from dust or foreign matter.
- Do not replace optical pick-ups other than necessary; otherwise they might not be properly adjusted.
- When disassembling the traverse unit, use caution not to lose small parts such as screws and springs.

The traverse unit is a precision optical part. Do not touch the lens or give shock to the traverse.

Make sure that the traverse assembly removed before trying to remove the optical pick-up unit. When removing the traverse assembly, solder the two laser short lands on the flexible cable of the optical pick-up unit.

- 1. Remove the two screws securing the main shaft retainer.
- 2. Remove the main shaft retainer.
- 3. Slide the main shaft in the direction indicated by the arrow to remove the optical pick-up unit.



## 8.5.2. Reinstalling optical pick-up unit

The optical pick-up unit is factory adjusted. Do not touch the adjustment screw.

- 1. Reassemble the disassembled parts in the reverse order of disassembly.
- 2. When reinstalling the traverse assembly on the main unit after installing the optical pick-up unit, make sure to remove the solder from each of the two laser short lands on the flexible cable.

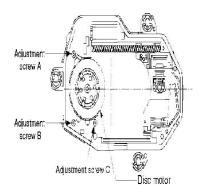
## Caution:

- Remove the solders completely; otherwise the laser diode won't emit light.
- After replacing the optical pick-up unit, check the quality of images played back and make optical adjustment.

## 8.6. Disc motor

## 8.6.1. Removing disc motor

- 1. Remove the adjustment screws A, B, and C.
- 2. Remove the disc motor.



## 8.6.2. Caution to be taken when replacing the disc motor

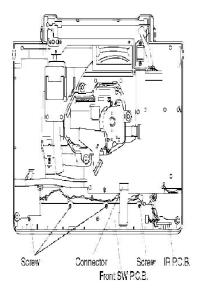
- 1. The mounting screws of the disc motor also serve as adjustment screws. When reinstalling the disc motor, first turn the screws A, B, and C as far as they go by usual force to secure them (do not overtighten).
- 2. Back off the adjustment screws A and C two complete turns and secure them.
- 3. Back off the adjustment screw B one and a half turns and secure them.
  - This makes it nearly possible to play back disks and adjust the itter.
  - Thereafter, adjust the adjustment screws C and A as indicated.

## 8.7. Main P.C.B.

- 1. Remove the 4 connectors.
- 2. Remove the 7 screws and remove the main P.C.B., battery jack P.C.B. and speakers.

## 8.8. Front SW P.C.B.

- 1. Remove the connector.
- 2. Remove the 4 screws and remove the front SW P.C.B. and IR P.C.B..



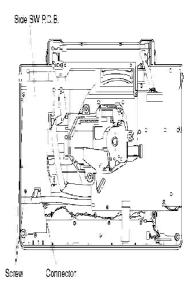
## 8.9. SD card P.C.B.

- 1. Remove the connector.
- 2. Remove the 3 screws and remove the SD card P.C.B..



## 8.10. Side SW P.C.B.

- 1. Remove the connector.
- 2. Remove the 2 screws and remove the side SW P.C.B..



# 8.11. Monitor assembly

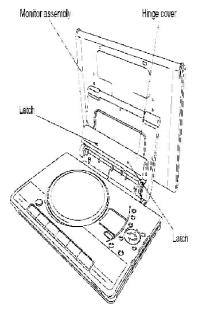
Take care not to get an electrical shock accident by touching the high-voltage cart when checking for conduction after disassembly.

Do not give damage to the LCD surface.

- 1. Remove the connector.
- 2. Remove the 5 screws.

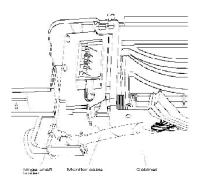


- 1. Release the latches and remove the hinge cover.
- 2. Remove the monitor assembly.



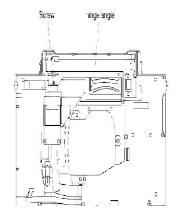
<Caution to be taken when installing monitor assembly>

1. Install the hinge shaft holder on the cabinet as shown figure.

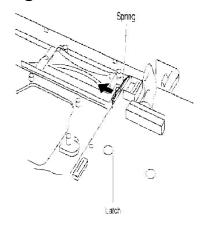


# 8.12. Disc cover

1. Remove the screw and remove the hinge angle.



2. Remove the spring into the direction of the arrow.

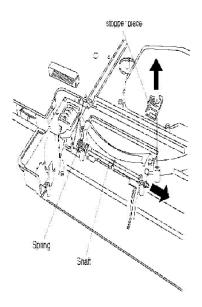


3. Remove the 2 screws and remove the disc hinge cover.

- 4. Remove the stopper piece into the direction of the arrow.
- 5. Remove the shaft into the direction of the arrow.

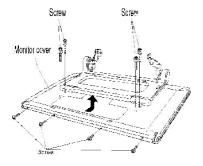
Caution:

Please don't lose the spring

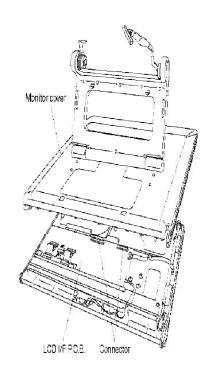


# 8.13. Monitor cover

- 1. Remove the 8 screws
- 2. Remove the monitor cover into the direction of the arrow.



3. Remove the 2 connectors.

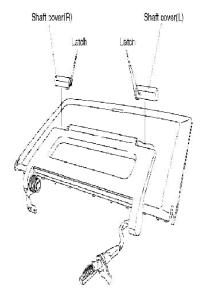


# 8.14. Mono arm

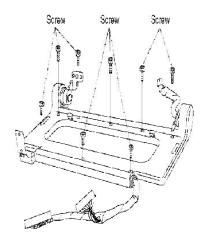
- 1. Remove the 2 screws.
- 2. Release the friction hinge from boss and remove the mono arm assembly.



3. Release the latches and remove the shaft covers.



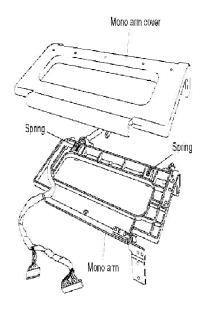
# 4. Remove the 8 screws.



# 5. Remove the mono arm cover.

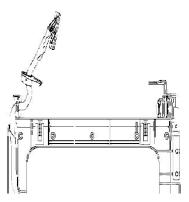
# Caution:

Please don't lose the spring



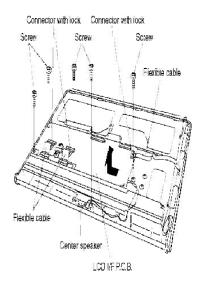
## <Caution to be taken when installing mono arm>

1. Install the monitor cable in the mono arm as shown figure.



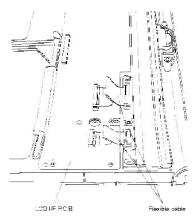
## 8.15. LCD I/F P.C.B.

- 1. Unlock the connector and remove the 3 flexible cables.
- 2. Remove the 5 screws.
- 3. Remove the center speaker.
- 4. Remove the LCD I/F P.C.B. into the direction of the arrow.



## <Caution to be taken when installing LCD I/F P.C.B.>

1. Reinstall the flexible cables as shown figure.

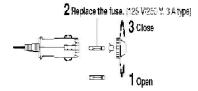


# 8.16. LCD panel and inverter unit

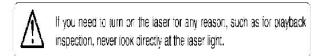
1. Remove the LCD panel and inverter unit into the direction of the arrow.

# 8.17. Replacing the fuse in the car dc adaptor

- Replace only with the specified 125V/250V, 3A fuse. Use of any other type can cause fire.



# 8.18. Service position



## 8.18.1. Board checks

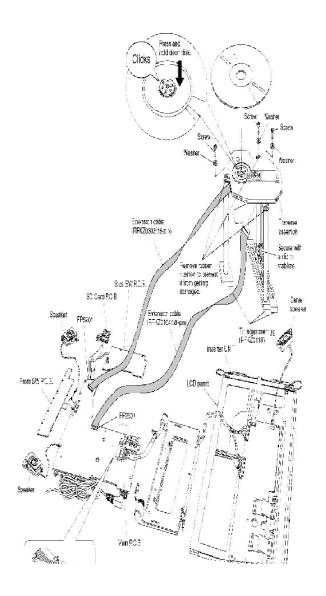
- 1. Connect the main P.C.B and the traverse assembly with an extension cable.
- 2. Install the traverse assembly to the tilt adjustment jig using three screws and three washers.

## Caution:

- Remove the rubber cushion from the traverse assembly to prevent it from getting damaged.
- 3. Install a dick on the traverse assembly.

## Caution:

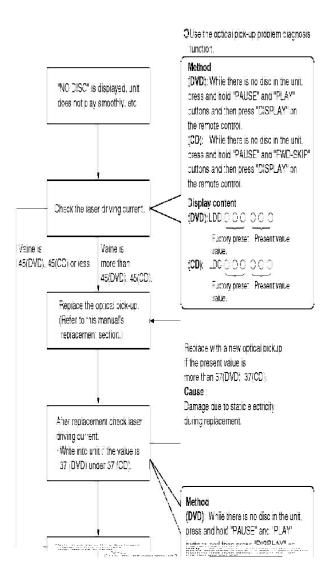
- Make sure the disk is securely installed on the disk motor.
- 4. Remove the main P.C.B., operation P.C.B., inverter P.C.B., and LCD panel as shown below.
- 5. The disk cannot be played back with the disk cover removed. Press and hold down the S5201 and S5202. (Secure with cellulose tape.)



# 9. SELF-DIAGNOSIS FUNCTION AND SERVICE MODE

# 9.1. Optical Pickup Breakdown Diagnosis

As a new feature, this unit has an "optical pick-up problem diagnosis function" and "a tilt adjustment confirmation function" built in. Use the following procedure to efficiently determine the problem and adjust tilt.If "NO DISC" is displayed, before exchanging the optical pick-up, carry out problem diagnosis first. If the present laser driving current is over 55, the optical pick-up may need to be exchanged.



## Note:

Carry out diagnosis within 3 minutes of turning the unit on. (The player's current can increase as it warms up, so turn the unit off and allow it to cool down before diagnosis.)

Cautions to be taken when replacing the optical pickup

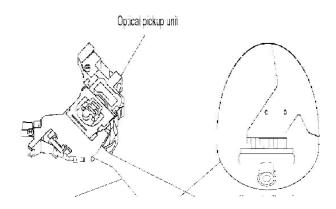
The optical pickup may break down due to the static electricity of human body. Take proper protection measures against static electricity before repairing the parts around the optical pickup. (See the page describing the PREVENTION OF STATIC ELECTRICITY DISCHARGE.)

1. Do not touch the areas around the laser diode and actuator.

- 2. Do not judge the laser diode with a tester. (The tester will be damaged easily.)
- 3. It is recommended to use a destaticized soldering iron for shortcircuiting or removing the laser diode. (Recommended soldering iron) HAKKO ESD Product
- 4. Solder the land of the flexible cable in the optical pickup.

#### Note:

- When using a soldering iron which is not destaticized, short-circuit the terminal face of the flexible case with a clip. After that, short-circuit the land.
- After the repairing work is completed, remove the solder according to the correct procedure shown in this Technical Guide.



# 9.2. UHF displays

Use the internal service mode for evaluation of malfunctions.

Display Method	Display	Diagnosis
Items displayed when in use	CHECK THE DISC	Focus error
	H01	Inner cover trouble
	H02	Spindle servo error
	H03	Traverse error
	H04	Tracking servo error
	H05	Seek error
Press the "0" button on the remote control while holding down the PAUSE and PLAY buttons on the player. The last error code generated is saved in the EEPROM	F0**	Disc format error
	F1**	Disc code error
	F2**	Decoder LSI error
	F5**	DSC
	F6**	ECC error
	F7**	Microcomputer error
	F8**	Microcomputer error

# 9.3. Service Mode Table 1

The service modes can be activated by pressing various button combination on the player and remote control unit.

Player buttons	Remote control unit buttons	Application	Note
PAUSE / + / PLAY	0	Displaying the UHF display F	Refer to section 9.2. Self-Diagnor Function (UHF Display).
	5	Jitter check, tilt adjustment *Display shows xx_yyyzz "xx" and "zz" shown to the right have nothing to do with the jitter value. "xx" is the error counter, while "zz" is the focus drive value. Refer to section 11.4. for Optical Pickup Tilt Adjustment Procedure.	Refer to section 11.4. Optical Pickup Tilt Adjustment
	6	Checking the region numbers and broadcast system	
9 DISPLAY	7	Checking the program version	Check the IC30 FLASH ROM program.
	9	Lighting Confirmation Function of Display Tube	
	DISPLAY	Checking the laser drive current	Refer to section 8.5. Optical Pic Replacement Procedure.
	PAUSE	Writing the laser drive current value after replacing the optical pickup (do not use for anything other than optical pickup replacement)	

Player buttons	Remote control unit buttons	Application	Note
PAUSE BWD-SKIP PLAY	_	The user setting is returned to the state of the factory shipment.	Refer to section 9.6. Initializing DVD player.

# 9.4. DVD Self Diagnostic Function-Error Code

Error Code	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defec
	U, H error					
U11	Focus error					
U15	DVD-R not finalized					
H01	Tray loading error					
H02	Spindle servo error	(Spindle servo, DSC SP motor, CLV servo error)				
H03	Traverse servo error					
H04	Tracking servo error					
H05	Seek error					
H06	Power error	Cannot switch off the power because of the panel and system computer communication error				
H07	Spindle motor drive error					
	DSC related					
F500	DSC error	DSC stops in the occurence of servo error (starup, focus error, etc)	OPU	DV3.2 (IC3004)	DV3.2 (IC3004)	serve drive
F501	DSC not Ready	DSC-system computer communication error (Communication failure caused by idling of DSC)	DV3.2 (IC3004)	DV3.2 (IC3004)		
F502	DSC Time out error	Similar disposal as F500	OPU	DV3.2 (IC3004)	DV3.2 (IC3004)	serve drive
F503	DSC communication Failure	Communication error (result error occured although communication command was sent)	DV3.2 (IC3004)	DV3.2 (IC3004)	EEPROM (IC3002)	
F505	DSC Attention error	Similar disposal as F500	OPU	DV3.2 (IC3004)	DV3.2 (IC3004)	serve drive
F506	Invalid media	Disc is flipped over, TOC unreadable, incompatible disc	DISC	DV3.2 (IC3004)	DV3.2 (IC3004)	DV3.
	ODC related					

Error	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defec
Code		,				
F600	Access failure to management information caused by demodulation error	Operation stopped because navigation data is not accessible caused by the demodulation defect	DV3.2 (IC3004)	DV3.2 (IC3004)	DV3.2 (IC3004)	
F601	Indeterminate sector ID requested	Operation stopped caused by the request to access abnormal ID data	DV3.2 (IC3004)	DV3.2 (IC3004)	DV3.2 (IC3004)	
F602	Access failure to LEAD-IN caused by demodulation error	LEAD IN data unreadable				
F603	Access failure to KEYDET caused by demodulation error	Access failure to CSS data of disc				
F610	ODC abnormality	No permission for command execution	DV3.2 (IC3004)			
F611	6626 QCODE don't read Error	Access failure to seek address in CD series	DV3.2 (IC3004)			
F612	No CRC OK for a specific time	Access failure to ID data in DVD series	DV3.2 (IC3004)			
F630	No reply to KEY DET enquiry	(for internal use only)				
F631	CPPM KEY DET is not available till the FILE terminal	(CPPM file system is unreadable caused by scratches)	DISC	СРРМ		
F632	CPPM KEY DET is not available	Been revoked or falsified	DISC	EEPROM (IC3002)	CPPM (*1)	
F103	Disc code Illegal highlight Position	Big possibility of disc specification violation during highlight display	DISC			
	HIC Error					
F4FF	Force initialize failure (time out)		EEPROM (IC3002)	DV3.2 (IC3004)	DV3.2 (IC3004)	DV3.
	Micro computer error		(			
F700	MBX overflow	When replying message to disc manager				
F701	Message command does not end	Next message is sent before replying to disc manager				

Error Code	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defec
F702	Message command changes	Message is changed before it is sent as a reply to disc manager				
F880	Task number is not appropriate	Message coming from a non-existing task				
F890	Sending message when message is being sent to AV task	Sending message to AV task				
F891	Message couldn't be sent to AV task	Begin sending message to AV task				
F893	FROM falsification		FROM (IC3001)	DV3.2 (IC3004)		
F894	EEPROM abnormality		EEPROM cor (IC3002)	Serial / mmunicati on lone	on	
F895	Language area abnormality	Firm version agreement check for factory preset setting failure prevention	FROM (IC3001)			
F896	No existence model	Firm version agreement check for factory preset setting failure prevention	FROM (IC3001)			
F897	Initialize is not completed	Initialize completion check for factory preset setting failure prevention				
F8A0	Message command is not appropriate	Begin sending message to AV task				

#### Noto:

An error code will be canceled if a power supply is turned OFF.

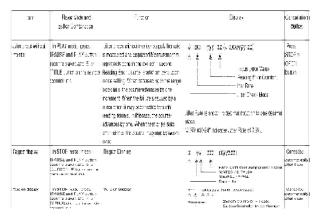
# 9.5. Last Error Code saved during NO PLAY

<sup>\*1:</sup> CPPM is the copy guard function beforehand written in the disc for protection of copyrights.

Error code	Error Content
F0BF	6) Cannot playback because physical layer is not recoginizable
F0C0	8) DVD: Cannot playback because it is not DVD Video/Adio/VR
F0C1	9) DVD: Prohibited by the restricted region code
F0C2	A) DVD: PAL restricted playback
F0C3	B) DVD: Parental lock setting prohibits the playback of the entire title
F0C4	C) VCD: Prohibited because it is in PHOTO CD fromat
F0C5	VCD/CD: Prohibited because it is CDROM without CD-DA

### 9.6. Service mode table

Pressing various button combinations on the player and remote control unit can activate the service modes.



12"	Player Move end Burkin Compination	F.rzton	Ciso er	Cardellalion Wellhoo
ing all least recurrent recent we much	PISICH mode, press IPARS Herry - A thickness for the player and PARS - Iburton or the remote control IPARS - Inc.	Hidleser und Messenraf hidleser som internommen hidlese ad se messendered kvalif EEPPOVas it a coluer	LDC - 004 - 902 (LD2054052)  5	Carvalet culorerably effer 5 sec.
lanet d. 1911 dispay	tor the player and DISPLAY	Last Cusen Tispas (Taste curse or executed or dobused with the interview social of EPROVIE (Filtrage social or 15 capaged wite in the volume of the cuse of the contraction of the contr	LDC 054 065 : .DD/034035;  A	Cancalle. Quintifically effects see.
	METCT mode, press IPALSE and BVID SKIP IBUTIONS OF THE Discrete and IDSPLAY buttonen the Itempte control unit	Region and System Confilmation heralds (display	DRYPERS   TRYENTERS	Cancelled automateally aller 5 sec.
CERMICE EMIKA, COM INDEEDY	in BTOF mode, siegs IPPUSE and SWID-BRIF Ibutions on the diskey, and influence on the remote (control unit.)	OPPORER NeyComme of Whether the president make from each EEPROB is or while most looped the cost is explained within support the exceptioned within support guidenteed. Whether the light has a shall be not an an address beautiful disease. In promoted proteoring Bussel is	At OPEN by Horne     At OPEN by Horne     OFFI May - exert without his order matter     With SPEN on Hornel the option complet is before conformation of the option o	Cancaled automotody effectives.
Coynunces on a rend splay	In all modes, piece IPAUSe and braut-Skill- Buldens on the dayer, and "C" suitath on the remails confity unit.	Communication emortleplay (Runnest strommunication emotion per 35) communications is discrepted.	THRICATOR CONT.	Cancelor automobily aller 5 sec.
Везидмитес е овову тобк	Mail meed dres: IPAUSE and EWD-SKIP Ibutons or the pkyyr. a w USP himer and to corola	Design whole display more It at disting variable sixistened on GUI.	Yorg;	CONTROL OF THE CONTRO

ber	Payar Moxe and Butter Compinal er	F.reten	Ciscee	Garcelation Welloc
der de valen eine en par	In a TOT hode, over PAUSE and PAULABLE In the second model of the Monter or the second coming unit	Descending apple.  Weathorsto Displace displaced in order.  HERBit for provincing as an order, one can apple and apple apple and apple apple and apple and apple and apple apple and apple apple apple and apple apple apple and apple and apple apple apple apple and apple apple apple apple and apple app	Book   Calcos Components	Display is display to display and the control of th
Time foresk		Timent check Il averusing timePerade de measured secarate y for ImDisser and CC esser	posed a whose no situation  11_12315678_011254756761  DVG laser and GC bear samptimes are deplayed by tanking nearest time is deplayed as elected interest on using 100 points on using 100 points on using 100 points of the content of the conte	Carcale: -::Linnalca <sub>(1)</sub> -::llarc set.
Time Timeseh	While the laser using the sideology to present 5004 and 5WD-9K Proutons on the player and following the player and following the player and following the player and following the problem of the problem	Nese Bang time	T1 0000 8600 (T10000/c008)	Carcales Luivipi ce y Alleré ses
Serve process laispley	In STOP mode, creat PAUSE and FWO-SKIP butters on the player, and 17 butter on the lensile continued.	Serior-indees display From STOP in access, Serior Process to cospic red frocesses despired FLAY are cospic red normally	XX YY GXR YY A A Sence VIV piccess Sence VIV piccess	OCATE, CL
Olika durat measuemen	InsTOP Mode, class PAUSE and FAVI CAMP butters on the players and DISFEAVE butter or thank made occurs with Perform mass unmerit expand after turning the payer off any of insucession insecond thekear famp is occur.	CO Leve Cumon Massulement PCD Report in Program and distributed Monthle Intervalued in ELPROM	DO_EVB_00h (_OTBOBBCPA)  A_A_A_A  — seasued or a  — in sour entance or EPPOM — Other control from the  Control from the	Cancelec automaticaly) after disect

### 9.7. Lens cleaning

When cleaning the lens, use the lens cleaner which product part No. SZZP1038C.

### 10. SERVICE PRECAUTIONS

# 10.1. Recovery after the dvd player is repaired

- When FROM or main P.C.B. is replaced, carry out the recovery processing to optimize the drive.
  - Playback the recovery disk to process the recovery automatically.
- Recovery disc (Product number: RFKZD03R005)
- Performing recovery
  - 1. Load the recovery disc RFKZD03R005 on to the player and run it.
- 2. Recovery is performed automatically. When it is finished, a message appears on the screen.
- 3. Remove the recovery disc.
- 4. Turn off the power.

#### Note:

This unit requires no initialization process carried out after the traditional DVD players were repaired. When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item of "Initialization" in 9.6. is carried out. Write down the contents of the setting before recovery processing, and reset the player.

### 10.2. Firmware version-up of the DVD player

- The firmware of the DVD player may be renewed to improve the quality including operationability and playerbility to the substandard discs.processing to optimize the drive.

The recovery disc has also firmware version-up.

- After version-up, recovery processing is executed automatically.
- Part number of the recovery disc for version-up will be noticed when it is supplied.
- Updating firmware
  - 1. Load the recovery disc that is supplied to the player and run it.
- 2. Firmware version of the player is automatically checked. Appropriate message appears whenever necessary.
- 3. Using remote controller's cursor key, select whether version updating is to be done or not. (Selection of Yes/No)
- 4. a. If Yes is selected, version updating is performed.
  - b. If No is selected, only recovery is performed.
- 5. a. When updating is finished, remove the disc according to the message appearing on the screen.
  - b. Remove the disc according to the message appearing on the screen.
- 6. Turn off the power.

#### Note:

If the AC power supply is shut out during version-up due to a power failure, the version-up is improperly carried out.

In such a case, replace the FROM and carry out the version-up again.

# 11. ADJUSTMENT PROCEDURES

#### <Caution>

Be sure to take static electricity countermeasures before adjusting the optical system. Adjust the optical systems according to the prescribed procedure.

## 11.1. Service Tools and Equipment

Application	Name	Number
Tilt adjustment	DVD test disc	DVDT-S15AS or DVDT-S01
Inspection	Extension cable	RFKZ0104 (30Pin)
	(Traverse ass'y to main P.C.B.)	
	Extension cable	RFKZ0303 (18Pin)
	(Traverse ass'y to main P.C.B.)	
	Tilt adj. jig	RFKZ0118
Others	Screw lock	RZZ0L01
	Grease	JGS0101
	Lubricating oil	RFKXGUD24
Confirmation	CD test disc	PVCD-K06
		or any other commercially
		available disc
	VCD test disc	PVCD-K06
		or any other commercially
		available disc
	Recovery disc	RFKZD03R005

### 11.2. Important points in adjustment

### 11.2.1. Important points in optical adjustment

- Optical pickup tilt adjustment is needed after replacement of the following components.
- 1. Optical pickup unit
- 2. Disc motor
- 3. Traverse motor
- 4. Optical pickup peripheral parts (such as rail)

#### **Notes**

Adjustment is generally unnecessary after replacing other parts of the traverse unit. However, make adjustment if there is a noticeable degradation in picture quality.

Optical adjustments cannot be made inside the optical pickup.

### 11.2.2. Important points in electrical adjustment

- Follow the adjustment procedures described in this Manual.

# 11.3. Storing and Handling Test Discs

-Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.

- 1. Do not place discs directly onto the workbench, etc., after use.
- 2. Handle discs carefully in order to maintain their flatness. Place them into their case after use and store them vertically. Store discs in a cool place where they are not exposed to direct sunlight or air from air conditioners.
- 3. Accurate adjustment will not be possible if the disc is warped when placed on a surface made of glass, etc. If this happens, use a new test disc to make optical adjustments.
- 4. If adjustment is done using a warped disc, the adjustment will be incorrect and some discs will not be playable.

## 11.4. Optical adjustment

### 11.4.1. Optical pick gate adjustment

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw		DVDT-S01/S15AS
	(Adjustment screw A) Radial tilt adjustment screw	Tracking servo "ON"	
	(Adjustment screw B)		
Measuring apparatus		Adjustment value	
None (Use the service indication on the main unit)		Adjust the jitter value t	to the minimum level.

Remove the solder shorts before trying to make the adjustment.

11.4.1.1. Preparations

- 1. Connect the main P.C.B. to the traverse ass'y with the extension cable.
- 2. Install the traverse ass'y to the tilt adjustment jig with three screws and three washers.

#### Caution

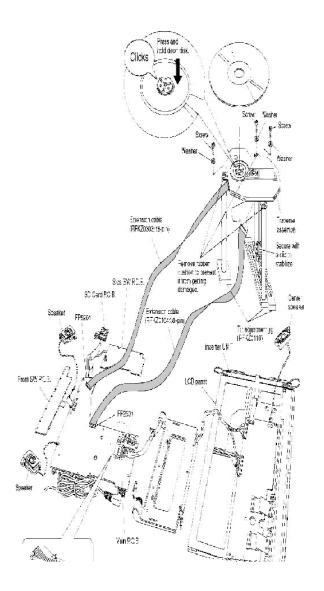
Remove the rubber cushion of the traverse ass'y.

3. Install the traverse ass'y to the disc.

#### Caution

Make sure the disc is installed on the disc motor securely.

- 4. Disassemble the Main P.C.B., Operation P.C.B., Inverter P.C.B. and LCD panel as shown in figure below.
- 5. The disc cannot be played back with the Disc cover attached. Press and hold down the S5201 and S5202 (Secure with cellulose tape)



11.4.1.2. Adjustment

1. Play back the disc (DVDT-S01/S15AS) and make sure the RF signal is outputted.

- 2. Play back the areas within a radius of  $40 \pm 1$  mm of the disc (middle circumference).
- 3. Turn the adjustment screw C to minimize the jitter value in the radial direction.
  - (\*Once turn the screw to the full position and then back off. You should finish tightening in the tightening direction.)
- 4. Turn the adjustment screw A to minimize the jitter value in the tangential direction.
  - (\*Once turn the screw to the full position and then back off. You should finish tightening in the tightening direction.)
- 5. DISC height measurement (Measure the middle of the deflection of the disc and motor surface.)

The height of the turntable is accepted in case of being less than 1.0V in the DC potential difference on driver IC side of A [CKA4] and B (CKA1). (The voltmeter negative is connected and A and positive are connected B.)

# \*If the measured height is out of range, adjust to the specified value using the adjustment screws A, B, and C (by the same angle).

#### 11.4.1.3. Checking after adjustment

Play back the test disc and ordinary discs to make sure that there is not any deterioration of image quality or missing of sound at the inner, middle, and outer circumferences.

### 11.5. Electrical adjustment (LCD)

[How to enter into the LCD panel adjustment mode]

Play back the specified video signal (10 steps, color bas signal).

Press and hold down "Back skip" and "Pause" of the main unit at the same time while pressing "Menu" on the remote control unit.

[The DVD player is now in the FT02 mode]

Press the "Forward skip button twice to enter into the FT04 mode (LCD panel adjustment mode).

Press the "Playback" button to play back the signal which has been played back before stopping and then, press the "Pause (still) button.

[How to exit to normal mode]

(Exit the F4 mode)

1. Turn off the primary power supply (Remove the DC power supply).

Turn on the power supply. Press the "Stop" to stop the system.

Press "Cancel" on the remote control unit (The Cancel key is enabled only when the system is stopped.)

- Whenever the LCD panel is replaced, make the following checks and adjustments.
- Press the "Enter" key and fix the settings.
- When the EEPROM" (IC3002) of the Main P.C.B. is replaced, call up the LCD Panel adjustment mode (FT04) and execute the AUDIO on the remove control unit and then check the condition of the screen. Make adjustments as necessary.

### 11.5.1. Adjusting VCO oscillation frequency

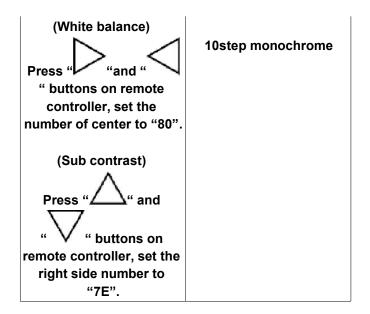
Adjustment is required when	Check	point
The synchronization of the LCD screen is irregular after any VCO- related circuit part is replaced	TP8201	
Adjustment procedure	Adjustment UP	Adjustment DOWN
Use "1" on remote control unit.	DVD player/ remote control unit	DVD player/ remote control
Details of adjustment	Input vid	eo signal
Press " " and "  "buttons on remote controller, set the		
right side number to "71".		

# 11.5.2. Adjusting DC offset of impressed voltage

Adjustment is required when	Check point	
Noise such as horizontal stripes is found on the screen.	TL8401	
Adjustment procedure	Adjustment UP	Adjustment DOWN
Use "3" on remote control unit.	DVD player/ remote control unit	remote
Details of adjustment	Input vid	eo signal
Press "and"  "buttons on remote controller, set the right side number to "Al".	10step monochrome	

# 11.5.3. Adjusting white balance red/subcontrast red

Adjustment is required when	Check point	
Remarkable deviation in white balance is found	TL8602	
Adjustment procedure	Adjustment UP	Adjustment DOWN
Use "6" on remote control unit.	DVD player/ remote control unit	DVD player/ remote control
Details of adjustment	Input video signal	



### 11.5.4. Adjusting whitebalance blue/subcontrast blue

Adjustment is required when	Check point		
Remarkable deviation in white balance is found	TL8604		
Adjustment procedure	Adjustment UP	Adjustment DOWN	
Use "7" on remote control unit.	DVD player/ remote control unit	remote	
Details of adjustment	Input vid	eo signal	
(White balance)	10step monochrome		
Press "and " "buttons on remote controller, set the number of center to "71".			
(Sub contrast)			
Press " "and			
" "buttons on remote controller, set the right side number to "84".			

# 11.5.5. Adjusting amplitude of impressed voltage

Adjustment is required when	Check point	
	TL8	401
Adjustment procedure	Adjustment UP	Adjustment DOWN
Use "2" on remote control unit.	DVD player/ remote control unit	remote
Details of adjustment	Input vid	eo signal
Press "——— and " buttons on remote controller, set the right side number to "15".	10step mo	nochrome

# 11.5.6. Adjusting pedestal

Adjustment is required when	Check point	
	TL8	603
Adjustment procedure	Adjustment UP	Adjustment DOWN
Use "4" on remote control unit.	DVD player/ remote control unit	remote
Details of adjustment	Input vid	eo signal
	10step mo	nochrome
Press " " and " " buttons on remote controller, set the number of center to "91".		

# 11.5.7. Adjusting contrast

Adjustment is required when	Check point	
	TL8	8603
Adjustment procedure	Adjustment UP	Adjustment DOWN
Use "4" on remote control unit.	DVD player/ remote control unit	remote
Details of adjustment	Input vid	eo signal
Press "—— " and " buttons on remote controller, set the right side number to "71".	10step mo	nochrome

# 11.5.8. Adjusting TINT

Adjustment is required when	Check point	
	TL8	604
Adjustment procedure	Adjustment UP	Adjustment DOWN
Use "5" on remote control unit.	DVD player/ remote control unit	remote
Details of adjustment	Input vid	eo signal
	75% co	olor bar
Press " " and " " buttons on remote controller, set the number of center to "75".		

# 11.5.9. Adjusting color

Adjustment is required when	Check point	
	TL8	604
Adjustment procedure	Adjustment UP	Adjustment DOWN
Use "5" on remote control unit.	DVD player/ remote control unit	remote
Details of adjustment	Input vid	eo signal
Press "—— " and " buttons on remote controller, set the right number to "81".	75% color bar	

### 11.6. Electrical check (Video output check)

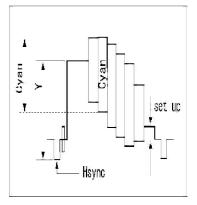
### 11.6.1. Checking video output (composite signal)

Check point	Mode	Disc
Video output terminal	Color bar playback (75%)	DVDT- S15AS
Measuring apparatus	Check value	
Oscilloscope	Y: 1000 mV ± 100 mV	
	Cyan: 650 mV ± 100 mV	

Purpose: Keep the interchangeability of video signal output

- 1. Terminate the composite signal of the video output terminal with 75 and input into the oscilloscope.
- 2. Select color bar 75% from the titles of the DVD test disc and play back.
- 3. Check that the composite signal output is the following value:

 $\frac{Y = 1000 \text{mV} \pm 100 \text{mV}}{\text{Cyan} = 650 \text{mV} \pm 100 \text{mV}}$ 



# 12. Abbreviations

INIT	IAL/LOGO	ABBREVIATIONS
C CAV		CONSTANT ANGULAR
	CBDO	VELOCITY
	CD	CAP. BLACK DROP OUT
	CDSCK	COMPACT DISC
	CDSRDATA	CD SERIAL DATA CLOCK
		CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCK SELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	СРА	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPH1~3	CLOCK PULSE SOURCE DRIVE
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPV	GATE DRIVER CLOCK PULSE
	CPWR	CPU WRITE ENABLE
	CS	CHIP SELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	l	

INI	ΓIAL/LOGO	ABBREVIATIONS	
Α	A0~UP	ADDRESS	
	ACLK	AUDIO CLOCK	
	AD0~UP	ADDRESS BUS	
	ADATA	AUDIO PES PACKET DATA	
	ALE	ADDRESS LATCH ENABLE	
	AMUTE	AUDIO MUTE	
	AREQ	AUDIO PES PACKET REQUEST	
	ARF	AUDIO RF	
	ASI	SERVO AMP INVERTED INPUT	
	ASO	SERVO AMP OUTPUT	
	ASYNC	AUDIO WORD DISTINCTION SYNC	
В	вск	BIT CLOCK (PCM)	
	BCKIN	BIT CLOCK INPUT	
	BDO	BLACK DROP OUT	
	BLKCK	SUB CODE BLOCK CLOCK	
	BOTTOM	CAP. FOR BOTTOM HOLD	
	BYP	BYPATH	
	ВҮТСК	BYTE CLOCK	

J =	DELIM INCOCUTION
DIG0~UP	FL DIGIT OUTPUT
DIN	DATA INPUT
DMSRCK	DM SERIAL DATA READ CLOCK
DMUTE	
DO	DIGITAL MUTE CONTROL
DOUT0~UP	DROP OUT
	DATA OUTPUT
DRF	DATA SLICE RF (BIAS)
DRPOUT	DROP OUT SIGNAL
DREQ	DATA REQUEST
DRESP	DATA RESPONSE
DSC	DIGITAL SERVO CONTROLLER
DSLF	DATA SLICE LOOP FILTER
DVD	DIGITAL VIDEO DISC

INIT	TIAL/LOGO	ABBREVIATIONS			
Е	EC	ERROR TORQUE CONTROL			
	ECR	ERROR TORQUE CONTROL			
		REFERENCE			
	ENCSEL	ENCODER SELECT			
	ETMCLK	EXTERNAL M CLOCK (81MHz/			
	ETSCLK	40.5MHz)			
		EXTERNAL S CLOCK (54MHz)			
F	FBAL	FOCUS BALANCE			
	FCLK	FRAME CLOCK			
	FE	FOCUS ERROR			
	FFI	FOCUS ERROR AMP INVERTED			
	FEO	INPUT			
	FG	FOCUS ERROR AMP OUTPUT			
	FSC	FREQUENCY GENERATOR			
	FSCK	FREQUENCY SUB CARRIER			
		FS (384 OVER SAMPLING)			
		CLOCK			
G	GND	COMMON GROUNDING			
		(EARTH)			
Н	HA0~UP	HOST ADDRESS			
	HD0~UP	HOST DATA			
	HINT	HOST INTERRUPT			
	HRXW	HOST READ/WRITE			
I	IECOUT	IEC958 FORMAT DATA OUTPUT		TIAL/LOGO	ABBREVIATIONS
	IPFRAG		0	ODC	OPTICAL DISC CONTROLLER
	IREF	INTERPOLATION FLAG		OEH	SOURCE DRIVER OUTPUT ENABLE
	ISEL	I (CURRENT) REFERENCE		OEV 1, 2	
		INTERFACE MODE SELECT		OFTR	GATE DRIVER OUTPUT ENABLE
L	LDON	LASER DIODE CONTROL		OSCI	OFF TRACKING
	LPC	LASER POWER CONTROL		OSCO	OSCILLATOR INPUT
	LRCK	L CH/R CH DISTINCTION		OSD	OSCILLATOR OUTPUT
D.4	MAG UD	CLOCK			ON SCREEN DISPLAY
M	MA0~UP MCK	MEMORY ADDRESS MEMORY CLOCK	P	P1~UP	PORT
	MCKI	MEMORY CLOCK INPUT	•	PCD	CD TRACKING PHASE
	MCLK	MEMORY SERIAL COMMAND		PCK	DIFFERENCE
	MDATA	CLOCK		PDVD	PLL CLOCK
		MEMORY SERIAL COMMAND		PEAK	DVD TRACKING PHASE
	MDQ0~UP	DATA		PLLCLK	DIFFERENCE
	MLD	MEMORY DATA INPUT/OUTPUT		PLLOK	CAP. FOR PEAK HOLD
	MPEG	MEMORY DATA I/O MASK		PWMCTL	CHANNEL PLL CLOCK
	IVIFEG	MEMORY SERIAL COMMAND		PWMDA	PLL LOCK
		LOAD		PWMOA, B	PWM OUTPUT CONTROL
		MOVING PICTURE EXPERTS			PULSE WAVE MOTOR DRIVE A
		GROUP			PULSE WAVE MOTOR OUT A, B
		_			

INIT	TIAL/LOGO	ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECT CLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUB CODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	ss	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STH	SOURCE START PULSE
	STSEL	STREAM DATA POLARITY
	STV	SELECT
	STVALID	GATE DRIVER SCAN START
	SUBC	PULSE
	SBCK	STREAM DATA VALIDITY
	SUBQ	SUB CODE SERIAL
	SYSCLK	SUB CODE CLOCK
		SUB CODE Q DATA

INI	ΓIAL/LOGO	ABBREVIATIONS					
Т	TE	TRACKING ERROR					
	TIBAL	BALANCE CONTROL					
	TID	BALANCE OUTPUT 1					
	TIN	BALANCE INPUT					
	TIP	BALANCE INPUT					
	TIS	BALANCE OUTPUT 2					
	TPSN	OP AMP INPUT					
	TPSO	OP AMP OUTPUT					
	TPSP	OP AMP INVERTED INPUT					
	TRCRS	TRACK CROSS SIGNAL					
	TRON	TRACKING ON					

OOD OODE & DAIA	111011	TIVACINITO OIT
SYSTEM CLOCK	TRSON	TRAVERSE SERVO ON

INIT	TIAL/LOGO	ABBREVIATIONS
٧	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY
		VOLTAGE
	VCDCONT	VIDEO CD CONTROL
		(TRACKING
	VDD	BALANCE)
	VFB	DRAIN POWER SUPPLY
	VREF	VOLTAGE
	VSS	VIDEO FEED BACK
		VOLTAGE REFERENCE
		SOURCE POWER SUPPLY
		VOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC XDS	X COMPOSITE SYNC X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPT REQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIP SELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT
	1	1

# 13. VOLTAGE CHART

### Note:

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis

taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

 Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point, because it may differ from an actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

### 13.1. MAIN P.C.B.

### 13.2. LCD P.C.B.

### 14. BLOCK DIAGRAM

#### NOTE

Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point, because it may differ from an actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

- 14.1. OVERALL BLOCK DIAGRAM
- 14.2. POWER SUPPLY BLOCK DIAGRAM
- 14.3. SERVO BLOCK DIAGRAM
- 14.4. VIDEO BLOCK DIAGRAM
- 14.5. AUDIO BLOCK DIAGRAM
- 14.6. LCD DRIVE BLOCK DIAGRAM

# 15. INTERCONNECTION SCHEMATIC DIAGRAM & SCHEMATIC DIAGRAM NOTES

### 15.1. INTERCONNECTION SCHEMATIC DIAGRAM

### 15.2. SCHEMATIC DIAGRAM NOTES

This schematic diagram may be modified at any time with the development of new technology.

### Important safety notice:

Components identified by mark have special characteristics important for safety. Furthermore, special parts which have purpose of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacture's specified parts shown in theparts list.

#### Important safety notice:

There are special components used in this equipment which are important for safety.

These parts are marked by in the schematic diagrams. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

#### Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

Do not touch the legs of IC or LSI with the fingers directly.

### 16. SCHEMATIC DIAGRAM

- 16.1. POWER SUPPLY/CHARGE BATTERY SECTION (MAIN P.C.B. (1/4)) SCHEMATIC DIAGRAM
- 16.2. OPTICAL PICK UP/SERVO/OPERATION SECTION (MAIN P.C.B. (2/4)) SCHEMATIC DIAGRAM
- 16.3. DV3 SECTION (MAIN P.C.B. (3/4)) SCHEMATIC DIAGRAM
- 16.4. AUDIO OUT/VIDEO OUT SECTION (MAIN P.C.B. (4/4)) SCHEMATIC DIAGRAM
- 16.5. LCD IF SCHEMATIC DIAGRAM
- 16.6. LCD PAL SECTION (LCD P.C.B. (2/2)) SCHEMATIC DIAGRAM
- 16.7. SIDE SW SCHEMATIC DIAGRAM
- 16.8. FRONT SW SCHEMATIC DIAGRAM
- 16.9. SD CARD SCHEMATIC DIAGRAM
- 16.10. IR & BATTERY JACK SCHEMATIC DIAGRAM

### 17. CIRCUIT BOARD ASSEMBLY

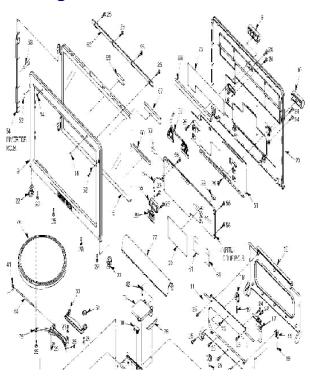
- **17.1. MAIN P.C.B. (1/2) (COMPONENT SIDE)**
- 17.2. MAIN P.C.B. (2/2) (FOIL SIDE)

### 17.3. LCD P.C.B.

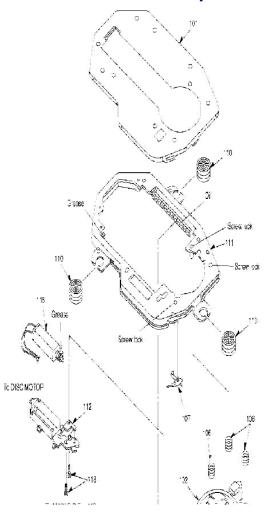
17.4. SIDE SW P.C.B. , FRONT SW P.C.B. , SD CARD P.C.B. , IR P.C.B. & BATTERY JACK P.C.B.

# 18. EXPLODED VIEWS

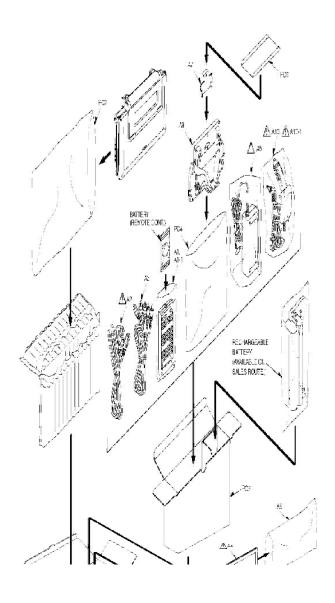
# 18.1. Casing Parts & Mechanism Section Exploded View



# 18.2. Mechanism Section Exploded View



# 18.3. Packing & Accessories Exploded View



# 19. REPLACEMENT PARTS LIST

### Notes:

\*Important safety notice:

Components identified by mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture's specified parts shown in the

#### parts list.

<sup>\*</sup>Parts indicated with (PAVC-CSG) in the Remarks column are supplied by PAVC (PAVC-CSG). All other parts are supplied by PAVCSG (ASPC).

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u> </u>	REP4004BA-C	SIDE SWITCH P.C.B.	1	(RTL)
<u>.</u> 2	REP4004BB-C	FRONT SWITCH P.C.B.	1	(RTL)
<u>-</u> <u>3</u>	RFKBLX110EET	MAIN P.C.B.	1	EE(RTL)
<u>s</u> 3	RFKBLX110GCS	MAIN P.C.B.	1	GCS(RTL)
<u></u> <u>4</u>	REP4003BB-C	BATTERY JACK P.C.B.	1	(RTL)
<u> </u>	REP4003BB-C	SD P.C.B.	1	(RTL)
	REE1374	SPEAKER WIRE	1	(KIL)
<u>6</u> 7	REP4008B-1C	LCD IF P.C.B.	1	(DTI )
<u>7</u> •		MONITOR CABINET ASS'Y	1	(RTL)
<u>8</u>	RGP1344-K		1	
9	RGQ0451-S	SHAFT HOLDER(L)		
<u>10</u>	RGQ0452-S	SHAFT HOLDER(R)	1	
<u>11</u>	RGQ0449-S	MONO ARM	1	
<u>12</u>	RGQ0450-S	MONO ARM COVER	1	( <b></b> )
<u>13</u>	REP4004BD-C	IR P.C.B.	1	(RTL)
<u>14</u>	RGQ0453-K	CUSHION(A)	2	
<u>15</u>	L5EDD2L00012	LCD PANEL	1	
<u>16</u>	RKC0025	FRICTION HINGE A	1	
<u>17</u>	RKC0026	FRICTION HINGE B	1	
<u>18</u>	RML0715	MONO ARM LOCK LEVER	2	
<u>19</u>	RMB0835	LOCK LEVER SPRING	2	
<u>20</u>	RFKKPLX110AS	MONITOR COVER ASS'Y	1	
<u>21</u>	RMA2003	CABINET SUPPORT PLATE	1	
<u>22</u>	RMR1790-H	ROLLER	2	
<u>23</u>	RMZ0838	INSULATION SHEET	1	
24	XQN17+B4FN	SCREW	9	
25	XQN17+BG4FNJ	SCREW	28	
26	XQN17+BG6FN	SCREW	30	
<u>27</u>	RMY0366	HEAT SINK PLATE	1	
28	XTN17+6GFJK	SCREW	8	
<u>29</u>	EAS2D10B	SPEAKER	1	
30	REZ1765	FFC(5P)	1	
<u>31</u>	REZ1767	FFC(11P)	1	
32	RMB0863	SD LOCK SPRING	1	
<u></u>	RGQ0456-S	DISC HINGE COVER	1	
<u>34</u>	RGU2478A-S	MAIN BUTTON(L)	1	
<u></u>	RGU2479-S	MAIN BUTTON(R)	1	
<u>36</u>	RGU2480-S	OPERATION BUTTON	1	
<u>37</u>	RGU2482-S	DISC OPEN BUTTON	1	
<u>38</u>	RGU2483-S	SD OPEN BUTTON	1	
<u>39</u>	RKM0559A-S	MAIN CABINET	1	EE
<del>39</del> 39	RKM0559-S	MAIN CABINET	1	GCS
41	RMB0861	DISC OPEN SPRING	1	

<sup>\*</sup>Warning: This product uses a laser diode. Refer to caution statements.

<sup>\*</sup>Capacity values are in microfarads ( # F) unless specified otherwise, P=Pico-farads (pF), F=Farads (F).

<sup>\*</sup>Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).

<sup>\*</sup>The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

<sup>\*&</sup>quot;(IA-IB)" mark in Remarks indicate languages of instruction manual. [(IA): Russian/ Ukrainian, (IB): English]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>42</u>	RMB0862	SD OPEN SPRING	1	
<u>43</u>	RML0716	DISC LOCK LEVER	1	
<u>44</u>	RML0717	SD LOCK LEVER	1	
<u>45</u>	RMR1791-H	LCD OFF BUTTON	1	
<u>46</u>	RGL0691-W	LIGHTING PIECE	1	
<u>47</u>	RKS0426A-S	BOTTOM CABINET	1	
<u>48</u>	RKW0812-W	REMOTE SENSOR WINDOW	1	
<u>49</u>	RMQ1532	HINGE SHAFT HOLDER	1	
<u>50</u>	REEC0012	CABLE WITH CONNECTOR(46P)	1	
<u>51</u>	RMA2001	SUPPORT ANGLE	1	
<u>52</u>	RGQ0454-H	CUSHION(B)	2	
53	REZ1769	FFC(10P)	1	
<u>54</u>	N0DD2GC00001	INVERTER P.C.B.	1	
 55	RMQ1533	SPEAKER HOLDER	1	
56	RHD17038-1	SCREW	3	
<u>57</u>	RMQ1535	GASKET	1	
<u>57</u> 58	RMQ1536	GASKET	1	
<u>50</u> 5 <u>9</u>	RMQ1537	GASKET	1	
	-		1	
<u>60</u> 61	RMQ1538 REZ1768	GASKET EEC(20D)		
	+	FFC(30P)	2	
<u>62</u>	RMA2000	FRONT ANGLE	1	
<u>63</u>	RMS0883	DISC LID SHAFT	1	
<u>64</u>	RMR1792-H	STOPPER PIECE	1	
<u>65</u>	RMA2002	HINGE ANGLE	1	
<u>66</u>	EAB220AL	SPEAKER(L)	1	
<u>67</u>	EAB220AR	SPEAKER(R)	1	
<u>68</u>	REZ1764	FFC(12P)	1	
<u>69</u>	RMQ1560	GASKET	1	
<u>70</u>	RMV0314	SHEET	1	
<u>71</u>	RKF0764-S	SD LID	1	
<u>72</u>	RGU2481-S	ENTER BUTTON	1	
<u>73</u>	RMQ1534	SD P.C.B. HOLDER	1	
<u>74</u>	RMB0864	DISC LOCK SPRING	1	
<u>75</u>	RGQ0458-H	DISC LID HINGE	1	
<u>76</u>	RKF0763-S	DISC LID	1	
<u>77</u>	RGQ0457-S	HINGE COVER	1	
<u>78</u>	RGL0690-W	SD LIGHTING PLATE	1	
79	RGK2001-S	SPEAKER PIECE	1	
<u></u>	RGN2903A-W1	NAME PLATE	1	GCS
80	RGN2903C-W1	NAME PLATE	1	
				EE
<u>101</u>	RMK0503-C	COVER	1	
<u>102</u>	BKL2E08KA	DISC MOTOR	1	
<u>103</u>	RDG0514-C	INTERFACE GEAR	1	
<u>104</u>	REZ1740	SPINDLE FFC	1	
<u>105</u>	RHD17037-1	SCREW	3	
<u>106</u>	RMB0681-J	TILT SPRING	3	
<u>107</u>	RMC0448-C	SPRING	1	
<u>108</u>	RMC0592-C	SPRING	1	
<u>109</u>	RMC0455-3C	SPRING	1	
<u>110</u>	RMG0562-K	DAMPER	3	
<u>111</u>	RMK0502-5C	TRAVERSE BASE	1	
112	RMR1393-WC	MOTOR COVER	1	
113	RMS0751-J	INTERFACE GEAR SHAFT	1	
<u> 114</u>	RXJ0031	DRIVE SHAFT ASS'Y	1	
<u> </u>	RXQ0786-1	TRAVERSE MOTOR ASS'Y	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>116</u>	RAF3134A-2	OPTICAL PICK UP	1	
118	XQN17+BG4FN	SCREW	2	
119	RHD17043-1	SCREW	1	
120	RMC0593-C	SUPPORT PLATE	1	
<u>A1</u>	N2QAHC000021	REMOTE CONTROL ASS'Y	1	
A1-1	ETR028272008	BATTERY COVER	1	
<u>A2</u>	K2CQ2CA00006	AC CORD	1	
<u>A3</u>	K2KA6CB00003	AV CORD	1	
<u>A4</u>	RQT8294-R	OPERATING INSTRUCTIONS	1	EE(IA)
A4	RQT8719-L	OPERATING INSTRUCTIONS	1	EE(IA)
				GCS(IB)
<u>A5</u>	RFEA214W-M	AC ADAPTOR	1	
<u>A7</u>	RGQ0459-K	MONITOR HOLDER	1	
<u>A8</u>	RPF0046-1	POLYETHYLENE BAG(F.B.)	1	
<u>A9</u>	RXQ1405B	BRACKET UNIT	1	
A10	RFEC202M-M	CAR DC CABLE	1	
A10-1	K5D252APA008	FUSE	1	
<u>PC1</u>	RPK2463-1	PACKING CASE	1	EE
PC1	RPK2464-1	PACKING CASE	1	GCS
PC4	RPFC0031-B	POLYETHYLENE BAG	1	
PC5	RPQF0299	ACCESSORY BOX	1	
PC6	RPQ2146-1	PAD A	1	
PC7	RPFC0072	POLYETHYLENE BAG	1	
PC8	RPQ2215	PAD B	1	
C1001	ECJ1VB1C105K	16V 1U	1	
C1002	ECJ1VB1C105K	16V 1U	1	
C1003	ECJ0EB1E102K	25V 1000P	1	
C1004	ECJ0EB1E102K	25V 1000P	1	
C1005	ECJ1VB1C105K	16V 1U	1	
C1006	ECJ0EB1E102K	25V 1000P	1	
C1007	ECJ0EC1H101J	50V 100P	1	
C1012	ECJ0EC1H151J	50V 150P	1	
C1013	ECJ0EB1E332K	25V 3300P	1	
C1014	F1H1A224A025	10V 0.22U	1	
C1015	ECJ1VB0J474K	6.3V 0.47U	1	
C1016	ECJ1VB1C105K	16V 1U	1	
C1017	F3F1A106A047	10V 10U	1	
C1018	ECJ0EC1H151J	50V 150P	1	
C1019	F3F1A106A047	10V 10U	1	
C1021	ECJ0EC1H151J	50V 150P	1	
C1022	ECJ0EB1E271K	25V 270P	1	
C1023	ECJ1VB0J474K	6.3V 0.47U	1	
C1025	ECJ0EB1C682K	16V 6800P	1	
C1026	ECJ0EB1E182K	25V 1800P	1	
C1027	ECJ0EB1E332K	25V 3300P	1	
C1031	ECJ1VB1C105K	16V 1U	1	
C1032	ECJ1VB1C105K	16V 1U	1	
C1032	ECJ1VB1C105K	16V 1U	1	
C1044	ECJ1VB1C105K	16V 1U	1	
	F1J0J1060010	6.3V 10U	1	
	1 1000 10000 10	0.04 100	1 '	1
C1047 C1051	F3G1A476A037	10V 47U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1053	F3G1A476A037	10V 47U	1	
C1054	F3G1A476A037	10V 47U	1	
C1063	F1K1C106A062	16V 10U	1	
C1066	ECJ0EB1C103K	16V 0.01U	1	
C1067	ECJ0EF1C104Z	16V 0.1U	1	
C1068	ECJ0EF1C104Z	16V 0.1U	1	
C1069	ECJ1VB1C105K	16V 1U	1	
C1070	ECJ0EB1E102K	25V 1000P	1	
C1071	ECJ0EC1H101J	50V 100P	1	
C1072	ECJ0EB1E182K	25V 1800P	1	
C1073	F1H1A224A025	10V 0.22U	1	
C1074	ECJ1VB1C105K	16V 1U	1	
C1101	F3G1V475A022	16V 4.7U	1	
C1102	F3G1V475A022	16V 4.7U	1	
C1103	F3G1E685A019	25V 6.8U	1	
C1104	F3G1E685A019	25V 6.8U	1	
C1104	ECJ1VB0J105K	6.3V 1U	1	
			1	
C1109	F1J0J1060010	6.3V 10U		
C1205	ECJ1VB1A105K	10V 1U	1	
C1401	ECJ0EB1C103K	16V 0.01U	1	
C1402	ECJ0EC1H101J	50V 100P	1	
C1403	ECJ3YB1E105K	25V 1U	1	
C1404	F2H1E680A003	25V 68U	1	
C1405	ECJ0EF1C104Z	16V 0.1U	1	
C1406	ECJ0EC1H101J	50V 100P	1	
C1407	F2G1C101A038	16V 100U	1	
C1409	F3F0J226A057	6.3V 22U	1	
C1410	ECJ0EC1H101J	50V 100P	1	
C1411	ECJ3YB1E105K	25V 1U	1	
C1412	F3F1C106A042	16V 10U	1	
C1413	ECJ3YB1E475K	25V 4.7U	1	
C1414	ECJ0EB1E103K	25V 0.01U	1	
C1415	ECJ1VB1A105K	10V 1U	1	
C1416	ECJ0EC1H680J	50V 68P	1	
C1417	F1G1A104A014	10V 0.1U	1	
C1421	ECJ0EF1C104Z	16V 0.1U	1	
C1422	ECJ0EF1C104Z	16V 0.1U	1	
C1423	F2H1E680A003	25V 68U	1	
C1424	F1G1A104A014	10V 0.1U	1	
C1425	ECJ0EC1H101J	50V 100P	1	
C1426	ECJ0EC1H101J	50V 100P	1	
C1427	F2G1C101A038	16V 100U	1	
C1428	ECJ0EC1H680J	50V 68P	1	
C1601	ECJ0EC1H101J	50V 100P	1	
C1606	F1K1C106A062	16V 10U	1	
C1623	F1J0J1060010	6.3V 10U	1	
C1624	F1J1A335A005	10V 3.3U	1	
C1625	ECJ0EF1C104Z	16V 0.1U	1	
C1625	F1J1A335A005	10V 3.3U	1	
C1652	F2G1C101A038	16V 100U	1	
C2501	ECJ0EC1H101J	50V 100P	1	
C2601	F3G1A476A037	10V 47U	1	
C2602	ECJ0EF1C104Z	16V 0.1U	1	
C2603	F3G1A476A037	10V 47U	1	
C2604	ECJ0EF1C104Z	16V 0.1U	1	
C2605	F3G1A476A037	10V 47U	1	
C2606	ECJ0EF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2607	ECJ0EF1C104Z	16V 0.1U	1	
C2651	F3G1A476A037	10V 47U	1	
C2652	F3F0J4760004	6.3V 47U	1	
C2653	ECJ0EF1C104Z	16V 0.1U	1	
C2654	ECJ0EF1C104Z	16V 0.1U	1	
C2655	ECJ0EF1C104Z	16V 0.1U	1	
C2656	ECJ0EF1C104Z	16V 0.1U	1	
C2657	F1G1A104A014	10V 0.1U	1	
C2658	ECJ0EB1C103K	16V 0.01U	1	
C2659	ECJ0EB1C103K	16V 0.01U	1	
C2660	ECJ0EB1C103K	16V 0.01U	1	
C2661	ECJ0EF1C104Z	16V 0.1U	1	
C2662	ECJ0EB1C103K	16V 0.01U	1	
C2663	ECJ0EB1C103K	16V 0.01U	1	
C2664	ECJ0EB1C103K	16V 0.01U	1	
C3001	ECJ0EF1C104Z	16V 0.1U	1	
C3002	ECJ0EF1C104Z	16V 0.1U	1	
C3004	ECJ0EF1C104Z	16V 0.1U	1	
C3005	ECJ0EF1C104Z	16V 0.1U	1	
C3006	ECJ0EF1C104Z	16V 0.1U	1	
C3007	ECJ0EF1C104Z	16V 0.1U	1	
C3008	ECJ0EF1C104Z	16V 0.1U	1	
C3009	ECJ0EF1C104Z	16V 0.1U	1	
C3010	ECJ0EF1C104Z	16V 0.1U	1	
C3011	ECJ0EF1C104Z	16V 0.1U	1	
C3012	ECJ0EF1C104Z	16V 0.1U	1	
C3015	ECJ0EF1C104Z	16V 0.1U	1	
C3016	ECJ0EF1C104Z	16V 0.1U	1	
C3018	ECJ1VB0J105K	6.3V 1U	1	
C3019	ECJ0EF1C104Z	16V 0.1U	1	
C3020	ECJ0EF1C104Z	16V 0.1U	1	
C3021	ECJ0EF1C104Z	16V 0.1U	1	
C3022	ECJ0EB1C153K	16V 0.015U	1	
C3024	ECJ0EF1C104Z	16V 0.1U	1	
C3025	ECJ0EF1C104Z	16V 0.1U	1	
C3025	ECJ0EF1C104Z	16V 0.1U	1	
	ECJ0EF1C104Z			
C3027		16V 0.1U	1	
C3028	ECJ0EB1A333K	10V 0.033U	1	
C3029	ECJ0EC1H221J	50V 220P	1	
C3030	ECJ0EF1C104Z	16V 0.1U	1	
C3031	ECJ0EF1C104Z	16V 0.1U	1	
C3032	ECJ0EF1C104Z	16V 0.1U	1	
C3033	ECJ0EB1C562K	16V 5600P	1	
C3034	ECJ0EB1E222K	25V 2200P	1	
C3035	ECJ0EB1C183K	16V 0.018U	1	
C3036	ECJ0EF1C104Z	16V 0.1U	1	
C3037	ECJ1VB0J105K	6.3V 1U	1	
C3038	ECJ0EF1C104Z	16V 0.1U	1	
C3039	ECJ1VB0J105K	6.3V 1U	1	
C3040	F1G1A104A014	10V 0.1U	1	
C3041	F1G1A104A014	10V 0.1U	1	
C3042	ECJ0EF1C104Z	16V 0.1U	1	
C3043	F1G1A104A014	10V 0.1U	1	
C3044	F1G1A104A014	10V 0.1U	1	
C3045	ECJ0EF1C104Z	16V 0.1U	1	
C3046	ECJ1VB0J105K	6.3V 1U	1	
C3047	F1G1A104A014	10V 0.1U	1	
	1	1	-	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3048	F1G1A104A014	10V 0.1U	1	
C3049	F1G1A104A014	10V 0.1U	1	
C3050	ECJ0EF1C104Z	16V 0.1U	1	
C3051	F1G1A104A014	10V 0.1U	1	
C3052	ECJ1VB0J105K	6.3V 1U	1	
C3053	ECJ1VB0J105K	6.3V 1U	1	
C3054	ECJ1VB0J105K	6.3V 1U	1	
C3055	ECJ1VB0J105K	6.3V 1U	1	
C3056	ECJ1VB0J105K	6.3V 1U	1	
C3057	F1G1A104A014	10V 0.1U	1	
C3058	ECJ0EF1C104Z	16V 0.1U	1	
C3059	ECJ0EF1C104Z	16V 0.1U	1	
C3060	ECJ1VB0J105K	6.3V 1U	1	
C3061	F3F0J476A047	6.3V 47U	1	
C3062	ECJ1VB0J105K	6.3V 1U	1	
C3063	F3F0J476A047	6.3V 47U	1	
C3064	F3F0J476A047	6.3V 47U	1	
C3065	ERJ3GEY0R00V	1/10W 0	1	
C3066	F3F0J476A047	6.3V 47U	1	
C3067	ECJ1VB0J105K	6.3V 1U	1	
C3069	ECJ1VB0J105K	6.3V 1U	1	
C3070	ECJ1VB0J105K	6.3V 1U	1	
C3071	ECJ0EC1H120J	50V 12P	1	
C3072	ECJ0EC1H270J	50V 27P	1	
C3073	F3F0J476A047	6.3V 47U	1	
C3074	F3F0J476A047	6.3V 47U	1	
C3075	ECJ0EB1E102K	25V 1000P	1	
C3076	ECJ0EB1E102K	25V 1000P	1	
C3077	ECJ0EB1E821K	25V 820P	1	
C3078	ECJ0EB1E102K	25V 1000P	1	
C3079	ERJ3GEY0R00V	1/10W 0	1	
C3080	ERJ3GEY0R00V	1/10W 0	1	
C3081	ECJ0EB1E102K	25V 1000P	1	
C3082	ECJ0EB1E102K	25V 1000P	1	
C3090	ERJ3GEY0R00V	1/10W 0	1	
C3091	ECJ0EB1E102K	25V 1000P	1	
C3092	ECJ0EB1E102K	25V 1000P	1	
C3093	ECJ0EB1E102K	25V 1000P	1	
C3095	ERJ3GEY0R00V	1/10W 0	1	
C3201	ECJ0EB1C103K	16V 0.01U	1	
C3202	ECJ1VB0J105K	6.3V 1U	1	
C3203	F3F0J4760004	6.3V 47U	1	
C3204	F1G1A104A014	10V 0.1U	1	
C3205	ECJ0EF1C104Z	16V 0.1U	1	
C3206	ECJ0EF1C104Z	16V 0.1U	1	
C3207	F3F0J226A057	6.3V 22U	1	
C3212	F2G0G331A012	4V 330U	1	
C3213	F3F0J226A057	6.3V 22U	1	
C3216	ECJ1VB0J105K	6.3V 1U	1	
C3217	ECJ0EF1C104Z	16V 0.1U	1	
C3218	ECJ1VB0J105K	6.3V 1U	1	
C3219	ECJ1VB0J105K	6.3V 1U	1	
C3220	ECJ1VB0J105K	6.3V 1U	1	
C3221	F1G1A104A014	10V 0.1U	1	
C3223	ECJ0EC1H101J	50V 100P	1	
C3224	F1G1A104A014	10V 0.1U	1	
C3225	ECJ0EC1H101J	50V 100P	1	
U3223	ECOUECITIUIS	30 V 100F	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3226	F1G1A104A014	10V 0.1U	1	
C3227	ECJ1VB0J105K	6.3V 1U	1	
C3228	ECJ1VB0J105K	6.3V 1U	1	
C3229	ECJ0EF1C104Z	16V 0.1U	1	
C3251	F3F1A226A047	10V 22U	1	
C4001	F1J0J1060010	6.3V 10U	1	
C4002	F1J0J1060010	6.3V 10U	1	
C4003	ECJ0EC1H390J	50V 39P	1	
C4004	ECJ0EC1H390J	50V 39P	1	
C4005	F1J0J1060010	6.3V 10U	1	
C4006	F1J0J1060010	6.3V 10U	1	
C4007	ECJ0EB1E102K	25V 1000P	1	
C4008	ECJ0EB1E102K	25V 1000P	1	
C4015	ECJ1VB0J105K	6.3V 1U	1	
C4016	ECJ1VB0J105K	6.3V 1U	1	
C4017	F1G1A104A014	10V 0.1U	1	
C4018	F1G1A104A014	10V 0.1U	1	
C4018	F3F0J476A047	6.3V 47U	1	
C4020	F3F0J476A047	6.3V 47U	1	
C4021	ECJ0EF1C104Z	16V 0.1U	1	
C4022	ECJ0EF1C104Z	16V 0.1U	1	
C4023	F3F1A226A047	10V 22U	1	
C4024	F1J0J1060010	6.3V 10U	1	
C4026	F3F0J476A047	6.3V 47U	1	
C4027	F3F0J476A047	6.3V 47U	1	
C4028	ECJ3YB1E105K	25V 1U	1	
C4029	ECJ0EF1C104Z	16V 0.1U	1	
C4030	F3F1A226A047	10V 22U	1	
C4031	ECJ0EF1C104Z	16V 0.1U	1	
C4032	F3F0J4760004	6.3V 47U	1	
C4033	ECJ0EF1C104Z	16V 0.1U	1	
C4034	F1K1C106A062	16V 10U	1	
C4035	F3F0J476A047	6.3V 47U	1	
C4036	F1J0J1060010	6.3V 10U	1	
C4040	F3F0J476A047	6.3V 47U	1	
C4041	F1G1A104A014	10V 0.1U	1	
C4042	ECJ0EF1C104Z	16V 0.1U	1	
C4044	F3F0J476A047	6.3V 47U	1	
C4045	F1G1A104A014	10V 0.1U	1	
C4046	ECJ1VB0J105K	6.3V 1U	1	
C4047	ECJ0EF1C104Z	16V 0.1U	1	
C4048	ECJ0EF1C104Z	16V 0.1U	1	
C4051	ECJ1VB0J105K	6.3V 1U	1	
C4052	ECJ1VB0J105K	6.3V 1U	1	
C4060	ERJ3GEY0R00V	1/10W 0	1	
C4061	ERJ3GEY0R00V	1/10W 0	1	
C4062	ERJ3GEY0R00V	1/10W 0	1	
C4063	ERJ3GEY0R00V	1/10W 0	1	
C4064	ECJ0EB1E102K	25V 1000P	1	
C4065	ERJ3GEY0R00V	1/10W 0	1	
C4066	ECJ0EB1E102K	25V 1000P	1	
C4067	ECJ0EB1E102K	25V 1000P	1	
C4101	ECJ0EB1C223K	16V 0.022U	1	
C4101	ECJ0EB1C223K	16V 0.022U	1	
C4104	ECJ0EB1E182K	25V 1800P	1	
C4104	ECJ1VB0J105K	6.3V 1U	1	
C4105	F3F0J476A047	6.3V 47U	1	

0.000 | 0.000,0000 | 0.000,000 | 1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4106	ECJ0EB1C103K	16V 0.01U	1	
C4701	ECJ1VB0J105K	6.3V 1U	1	
C4702	ECJ1VB0J105K	6.3V 1U	1	
C4703	F1J0J1060010	6.3V 10U	1	
C4704	ECJ1VB0J105K	6.3V 1U	1	
C4705	F1G1A104A014	10V 0.1U	1	
C4706	F1J0J4750002	6.3V 4.7U	1	
C4707	F1J0J1060010	6.3V 10U	1	
C4708	F1H1A224A025	10V 0.22U	1	
C4709	F1J0J4750002	6.3V 4.7U	1	
C4710	F1H1A224A025	10V 0.22U	1	
C4712	F1G1A104A014	10V 0.1U	1	
C4713	F1G1A104A014	10V 0.1U	1	
C4714	F1H1A224A025	10V 0.22U	1	
C4715	F1H1A224A025	10V 0.22U	1	
C4716	F3F1A106A047	10V 10U	1	
C4725	ECJ0EB1C103K	16V 0.01U	1	
C4726	ECJ0EB1C103K	16V 0.01U	1	
C4727	ECJ0EB1C103K	16V 0.01U	1	
C4728	ECJ0EB1C103K	16V 0.01U	1	
C4732	F1G1A104A014	10V 0.1U	1	
C4737	F2G0G331A012	4V 330U	1	
C4738	F2G0G331A012	4V 330U	1	
C5201	ECJ0EB1E102K	25V 1000P	1	
C5202	ECJ0EF1C104Z	16V 0.1U	1	
C5203	ECJ0EF1C104Z	16V 0.1U	1	
C5204	F1J0J1060010	6.3V 10U	1	
C5205	F1J0J1060010	6.3V 10U	1	
C5206	ECJ0EF1C104Z	16V 0.1U	1	
C5209	F1J0J1060010	6.3V 10U	1	
C5210	F1J0J1060010	6.3V 10U	1	
C5211	F3F0J4760004	6.3V 47U	1	
C5215	F3F0J4760004	6.3V 47U	1	
C5217	ECJ0EC1H101J	50V 100P	1	
C5218	ECJ0EF1C104Z	16V 0.1U	1	
C5219	ECJ0EB1E102K	25V 1000P	1	
C5220	ECJ0EB1E102K	25V 1000P	1	
C5221	ECJ0EC1H101J	50V 100P	1	
C5222	F1J0J1060010	6.3V 10U	1	
C5224	ECJ0EC1H470J	50V 47P	1	
C5232	ECJ0EF1C104Z	16V 0.1U	1	
C6001	ECJ0EB1C103K	16V 0.01U	1	
C6002	F1G1A104A014	10V 0.1U	1	
C6003	F1G1A104A014	10V 0.1U	1	
C6004	ECJ1VB0J105K	6.3V 1U	1	
C6005	F1G1A104A014	10V 0.1U	1	
C6006	F1G1A104A014	10V 0.1U	1	
C6007	ECJ0EF1C104Z	16V 0.1U	1	
C6008	ECJ0EF1C104Z	16V 0.1U	1	
C6009	F1G1A104A014	10V 0.1U	1	
C6010	ECJ0EF1C104Z	16V 0.1U	1	
C6011	ECJ1VB0J105K	6.3V 1U	1	
C6012	ECJ0EF1C104Z	16V 0.1U	1	
C6214	ECJ0EC1H470J	50V 47P	1	
C6800	F1G1A104A014	10V 0.1U	1	
			1	
C6801	F3F0J476A047	6.3V 47U		
C6901	F1G1A104A014	10V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6902	F1G1A104A014	10V 0.1U	1	
C8001	F3F0J476A047	6.3V 47U	1	
C8002	F3F0J476A047	6.3V 47U	1	
C8003	F3F0J4760004	6.3V 47U	1	
C8004	F3F0J4760004	6.3V 47U	1	
C8005	F3F0J476A047	6.3V 47U	1	
C8006	F3F0J476A047	6.3V 47U	1	
C8007	F1G1A104A014	10V 0.1U	1	
C8008	F3F0J476A047	6.3V 47U	1	
C8009	F1G1A104A014	10V 0.1U	1	
C8010	ECJ0EB1E331K	25V 330P	1	
C8011	ECJ0EB1E331K	25V 330P	1	
C8012	F1G1A104A014	10V 0.1U	1	
			1	
C8013	F1G1A104A014	10V 0.1U		
C8014	F1G1A104A014	10V 0.1U	1	
C8015	ECJ0EB1E331K	25V 330P	1	
C8016	ECJ0EB1E331K	25V 330P	1	
C8017	F1G1A104A014	10V 0.1U	1	
C8018	F1G1A104A014	10V 0.1U	1	
C8019	F3F0J476A047	6.3V 47U	1	
C8020	ECJ1VB0J105K	6.3V 1U	1	
C8021	F1G1A104A014	10V 0.1U	1	
C8022	F1G1A104A014	10V 0.1U	1	
C8023	ECJ2YB1A684K	16V 0.68U	1	
C8024	ECJ2YB1A684K	16V 0.68U	1	
C8025	F1G1A104A014	10V 0.1U	1	
C8026	F1G1A104A014	10V 0.1U	1	
C8027	F1G1A104A014	10V 0.1U	1	
C8028	F1G1A104A014	10V 0.1U	1	
C8029	ECJ0EB1E331K	25V 330P	1	
C8030	ECJ0EB1C103K	16V 0.01U	1	
C8031	F1G1A104A014	10V 0.1U	1	
C8032	ECJ0EB1E331K	25V 330P	1	
C8033	F1G1A104A014	10V 0.1U	1	
C8034	ECJ0EB1E331K	25V 330P	1	
C8035	F1G1A104A014	10V 0.1U	1	
C8036	F1G1A104A014	10V 0.1U	1	
C8037	ECJ0EB1E331K	25V 330P	1	
C8038	ECJ0EB1E331K	25V 330P	1	
C8039	F1G1A104A014	10V 0.1U	1	
C8040	F3F0J476A047	6.3V 47U	1	
C8041	F3F0J476A047	6.3V 47U	1	
C8042	F3F0J226A057	6.3V 22U	1	
C8043	F3F0J476A047	6.3V 47U	1	
C8044	F1G1A104A014	10V 0.1U	1	
C8046	F1G1A104A014	10V 0.1U	1	
C8047	ECJ0EB1E331K	25V 330P	1	
C8047	F1G1A104A014	10V 0.1U	1	
C8050	F1G1A104A014	10V 0.1U	1	
C8051	ECJ0EB1E331K	25V 330P	1 1	
C8052	F1G1A104A014	10V 0.1U	1	
C8053	ECJ0EB1E331K	25V 330P	1	
C8054	ECJ0EB1E331K	25V 330P	1	
C8055	F1G1A104A014	10V 0.1U	1	
C8056	ECJ0EC1H390J	50V 39P	1	
C8057	ECJ0EB1E331K	25V 330P	1	
C8058	F1G1A104A014	10V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8059	ECJ0EB1E331K	25V 330P	1	
C8060	F1G1A104A014	10V 0.1U	1	
C8061	ECJ0EB1E102K	25V 1000P	1	
C8062	ECJ0EB1E331K	25V 330P	1	
C8063	ECJ0EC1H330J	50V 33P	1	
C8064	ECJ1VB0J105K	6.3V 1U	1	
C8065	ECJ1VB0J105K	6.3V 1U	1	
C8066	ECJ0EB1C103K	16V 0.01U	1	
C8067	ECJ0EB1C103K	16V 0.01U	1	
C8068	ECJ0EB1C103K	16V 0.01U	1	
C8069	ECJ0EC1H101J	50V 100P	1	
C8070	F1G1A104A014	10V 0.1U	1	
C8071	F1G1A104A014	10V 0.1U	1	
C8073	F1J1C335A121	16V 3.3U	1	
C8074	ECJ1VB0J105K	6.3V 1U	1	
C8075	F3F0J476A047	6.3V 47U	1	
C8102	F3F0J476A047	6.3V 47U	1	
C8102	ECJ0EB1C103K	16V 0.01U	1	
C8103	F1G1A104A014	10V 0.1U	1	
C8105	F1G1A104A014	10V 0.1U	1	
C8202	ECJ0EB1E102K	25V 1000P	1	
C8203	F1G1A104A014	10V 0.1U	1	
C8204	ECJ1VB0J105K	6.3V 1U	1	
C8205	F1G1A104A014	10V 0.1U	1	
C8207	F1G1A104A014	10V 0.1U	1	
C8301	ECJ0EC1H390J	50V 39P	1	
C8303	F1G1A104A014	10V 0.1U	1	
C8304	F1G1A104A014	10V 0.1U	1	
C8305	F1G1A104A014	10V 0.1U	1	
C8306	ECJ1VB0J105K	6.3V 1U	1	
C8307	ECJ0EB1C223K	16V 0.022U	1	
C8308	ECJ0EC1H180J	50V 18P	1	
C8310	F1G1A104A014	10V 0.1U	1	
C8311	F1G1A104A014	10V 0.1U	1	
C8312	F3F1A226A047	10V 22U	1	
C8313	F1G1A104A014	10V 0.1U	1	
C8314	F1G1A104A014	10V 0.1U	1	
C8315	F1G1A104A014	10V 0.1U	1	
C8316	ECJ1VB0J105K	6.3V 1U	1	
C8317	ECJ1VB0J105K	6.3V 1U	1	
C8318	ECJ1VB0J105K	6.3V 1U	1	
C8320	F1J1A225A003	10V 2.2U	1	
C8321	F1J1A225A003	10V 2.2U	1	
C8322	F1J1A225A003	10V 2.2U	1	
C8323	ECJ0EB1C103K	16V 0.01U	1	
C8324	ECJ0EB1C223K	16V 0.022U	1	
C8325	F3F1A106A047	10V 10U	1	
C8326	ECJ0EB1C223K	16V 0.022U	1	
C8327	ECJ1VB0J474K	6.3V 0.47U	1	
C8329	F3F1A106A047	10V 10U	1	
C8330	F1J1A335A005	10V 3.3U	1	
C8331	ECJ0EB1E561K	25V 560P	1	
C8332	F1J1A225A003	10V 2.2U	1	
C8332	ECJ0EC1H270J	50V 27P	1	
C8342	ECJ0EC1H560J	50V 56P	1	
C8343	ECJ1VB0J105K	6.3V 1U	1	
C8345	ECJ1VB0J105K	6.3V 1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8346	F1G1A104A014	10V 0.1U	1	
C8347	F1G1A104A014	10V 0.1U	1	
C8348	F3G1A476A037	10V 47U	1	
C8349	F1G1A104A014	10V 0.1U	1	
C8350	F1G1A104A014	10V 0.1U	1	
C8351	F1G1A104A014	10V 0.1U	1	
C8352	F1G1A104A014	10V 0.1U	1	
C8353	F1G1A104A014	10V 0.1U	1	
C8354	ECJ1VB0J105K	6.3V 1U	1	
C8355	ECJ0EC1H470J	50V 47P	1	
C8356	F3G1A476A037	10V 47U	1	
C8357	F3G1A476A037	10V 47U	1	
C8358	F3G1A476A037	10V 47U	1	
C8359	F3G1A476A037	10V 47U	1	
C8409	F1G1A104A014	10V 0.1U	1	
C8411	ECJ0EB1C103K	16V 0.01U	1	
C8501	F3F1A226A047	10V 22U	1	
C8501	F1G1A104A014		1	
		10V 0.1U		
C8503	ECJ1VB1C104K	16V 0.1U	1	
C8504	F1G1A104A014	10V 0.1U	1	
C8505	F1G1A104A014	10V 0.1U	1	
C8508	ECJ1VB1C104K	16V 0.1U	1	
C8509	ECJ3FF1E225Z	25V 2.2U	1	
C8510	ECJ3FF1E225Z	25V 2.2U	1	
C8511	ECJ3FF1E225Z	25V 2.2U	1	
C8512	F1G1A104A014	10V 0.1U	1	
C8601	F1G1A104A014	10V 0.1U	1	
C8602	F1G1A104A014	10V 0.1U	1	
C8603	ECJ0EB1E102K	25V 1000P	1	
C8604	ECJ1VB0J105K	6.3V 1U	1	
C8605	ECJ1VB1H102K	50V 1000P	1	
C8606	F3G1D226A021	20V 22U	1	
C8614	F3F0J4760004	6.3V 47U	1	
C8615	ECJ1VB0J105K	6.3V 1U	1	
C8616	ECJ0EB1C103K	16V 0.01U	1	
C8617	F3F0J476A047	6.3V 47U	1	
C8618	ECJ0EB1C103K	16V 0.01U	1	
C8619	F1G1A104A014	10V 0.1U	1	
C8620	ECJ0EB1C103K	16V 0.01U	1	
C8623	ECJ0EB1E222K	25V 2200P	1	
C8625	ECJ1VB0J105K	6.3V 1U	1	
C8631	ECJ2YB1C105K	16V 1U	1	
C8633	ECJ0EC1H101J	50V 100P	1	
C8636	F1G1A104A014	10V 0.1U	1	
C8637	ECJ0EB1E331K	25V 330P	1	
C8701	ECJ1VB0J105K	6.3V 1U	1	
C8702	F3F0J476A047	6.3V 47U	1	
C8703	ECJ0EB1C103K	16V 0.01U	1	
C8704	F3F0J476A047	6.3V 47U	1	
C8705	ECJ0EB1C103K	16V 0.01U	1	
C8706	ECJ1VB0J105K	6.3V 1U	1	
C8801	F1G1A104A014	10V 0.1U	1	
C8802	ECJ0EB1C103K	16V 0.01U	1	
C8803	ECJ0EB1C103K	16V 0.01U	1	
C8804	ECJ0EB1C103K	16V 0.01U	1	
C8805	ECJ0EB1C103K	16V 0.01U	1	
C8806	F3F0J476A047	6.3V 47U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8901	ECJ0EB1C103K	16V 0.01U	1	
C8902	ECJ2YB1A684K	16V 0.68U	1	
C8903	F1G1A104A014	10V 0.1U	1	
C8904	ERJ2GE0R00X	1/16W 0	1	
C8906	ECJ1VB1H102K	50V 1000P	1	
C8908	ECJ1VB0J105K	6.3V 1U	1	
C8911	F1G1A104A014	10V 0.1U	1	
C8912	F1G1A104A014	10V 0.1U	1	
C8913	ECJ1VC1H100D	50V 10P	1	
C8914	ECJ0EB1C562K	16V 5600P	1	
C8915	ECJ0EB1E472K	25V 4700P	1	
C8917	ECJ0EC1H330J	50V 33P	1	
C8918	ECJ0EB1C822K	16V 8200P	1	
C8919	F1G1A104A014	10V 0.1U	1	
C8920	ECJ0EB1C223K	16V 0.022U	1	
C8921	ECJ1VC1H100D	50V 10P	1	
C8922	ECJ1VB0J105K	6.3V 1U	1	
C8923	F1H1H470A799	50V 47P	1	
C8924	ECJ0EB1E102K	25V 1000P	1	
C8925	ECJ0EB1E102K	25V 1000P	1	
C8926	ECJ0EB1E102K	25V 1000P	1	
C8927	ECJ0EB1E102K	25V 1000P	1	
C8939	ECJ1VB0J105K	6.3V 1U	1	
	Looiveon	0.07 10	•	
D1011	B0JCPD000032	DIODE	1	
D1012	B0JCPD000032	DIODE	1	
D1013	B0JCPD000032	DIODE	1	
D1016	MAZ81000ML	DIODE	1	
D1017	MAZ80390LL	DIODE	1	
D1021	B0JCPD000032	DIODE	1	
D1101	MA2SD2400L	DIODE	1	
D1102	MA2J11100L	DIODE	1	
D1103	MA2J11100L	DIODE	1	
D1401	B0JCPD000032	DIODE	1	
D1402	B0JCPE000004	DIODE	1	
D1404	B0JCPD000032	DIODE	1	
D1405	B0JCPD000032	DIODE	1	
D1406	B0JCMD000022	DIODE	1	
D1407	B0JCPD000032	DIODE	1	
D1408	B0JCPE000004	DIODE	1	
D1409	B0JCPD000032	DIODE	1	
D1410	B0JCPD000032	DIODE	1	
D1411	MA2J11100L	DIODE	1	
D1412	MAZ80510ML	DIODE	1	
D1413	MA3J142E0L	DIODE	1	
D1414	MA3J142E0L	DIODE	1	
D1415	MAZ80510ML	DIODE	1	
D1416	MA2J11100L	DIODE	1	
D1417	MA2J11100L	DIODE	1	
D1417	B0JCPD000032	DIODE	1	
D1601	B0JCPE000004	DIODE	1	
D1621	MA2J11100L	DIODE	1	
D3001 D3002	MA2J11100L	DIODE	1	
D3002 D3201	MA2J11100L	DIODE	1	
			1	
D3202	MA2J11100L	DIODE	1	
D4001	MA3S132D0L	DIODE		
D4002	MA2SD2400L	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D4003	MA3S132E0L	DIODE	1	
D4004	MA3S132D0L	DIODE	1	
D4006	MA3S132E0L	DIODE	1	
D4007	MA3S132D0L	DIODE	1	
D4008	MA2J11100L	DIODE	1	
D5221	MA2J11100L	DIODE	1	
D6004	MA2J11100L	DIODE	1	
D6801	LNJ826W83RA	DIODE	1	
D6802	LNJ414K82RA1	DIODE	1	
D6803	B3ADB0000069	DIODE	1	
D6831	B3AEB0000076	DIODE	1	
D8001	MA2SD2400L	DIODE	1	
D8002	MA3X704A0L	DIODE	1	
D8003	MA3X704A0L	DIODE	1	
D8201	MA2SD2400L	DIODE	1	
D8301	MA2Z07700L	DIODE	1	
D8302	MA2J11100L	DIODE	1	
D8303	MA2SD2400L	DIODE	1	
D8304	MA2SD2400L	DIODE	1	
D8305	MA2SD2400L	DIODE	1	
D8501	MAZSDZ400L MAZ81500ML	DIODE	1	
D8501	MA2SD2400L	DIODE	1	
D8502	MA3J745E0L		1	
		DIODE		
D8504	MA2J11100L	DIODE	1	
D8505	MA2J11100L	DIODE	1	
D8506	MA2J11100L	DIODE	1	
FI 0004	ED 100E\/0D00\/	4/4004.0		
FL8001	ERJ6GEY0R00V	1/10W 0	1	
FL8002	F1J1A105A013	FILTER	1	
FL8601	F1J1A105A013	FILTER	1	
FL8602	F1J1A105A013	FILTER	1	
FL8901	F1J1A105A013	FILTER	1	
FP2501	K1MY18BA0075	CONNECTOR(18P)	1	
FP3002	K1MY11BA0046	CONNECTOR(11P)	1	
FP5201	K1MN30BA0079	CONNECTOR(30P)	1	
FP6201	K1MY05BA0041	CONNECTOR(5P)	1	
FP6210	K1MY12BA0046	CONNECTOR(12P)	1	
FP6801	K1MY12BA0046	CONNECTOR(12P)	1	
FP6811	K1MY05AA0054	CONNECTOR(5P)	1	
FP6901	K1MY11BA0046	CONNECTOR(11P)	1	
FP8002	K1MY30BA0075	CONNECTOR(30P)	1	
FP8003	K1MY30BA0075	CONNECTOR(30P)	1	
FP8004	K1MY10BA0075	CONNECTOR(10P)	1	
HS6901	K1NA09E00070	CONNECTOR(9P)	1	
IC1001	C1ZBZ0002345	IC	1	
IC1003	C0DBZHD00013	IC	1	
IC1004	C0CBCDC00050	IC	1	
IC1101	C0CBCDC00050	IC	1	
IC1401	C0DBCMD00005	IC	1	
IC1402	C0DBCMD00005	IC	1	
IC1411	C0DBAGZ00029	IC	1	
	C0EBL0000178	IC	1	
IC1412				
IC1412 IC1601	C0DBDZZ00008	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC2651	C0GBF0000004	IC	1	
IC3001	RFKWPSA0Y320	IC	1	(PAVC-CSG)
IC3002	RFKWPLX110B	IC	1	EE
IC3002	RFKWDBB020AA	IC	1	GCS
IC3004	MN2DS0009AP	IC	1	
IC3007	C0EBE0000384	IC	1	
IC3009	C3ABPG000133	IC	1	
IC3201	C9ZB00000461	IC	1	
IC3201	C0JBAA000175	IC	1	
IC3203	C0JBAR000367	IC	1	
IC3204	C1AB00001379	IC	1	
IC4001	C0CBCDC00050	IC	1	
IC4002	C0CBCDC00050	IC	1	
IC4003	C0FBBK000049	IC	1	
IC4004	C0JBAR000367	IC	1	
IC4005	C0ABBB000105	IC	1	
IC4006	C0ABBA000150	IC	1	
IC4008	C0ZBZ0001010	IC	1	
IC4009	C0ABBA000077	IC	1	
IC4101	C1BB00000745	IC	1	
IC4701	C1BB00000952	IC	1	
IC5201	C0JBAS000265	IC	1	
IC6001	C0EBB0000036	IC	1	
IC6002	MN101C62FAA	IC	1	
IC6003	C0JBAA000344	IC	1	
IC6007	C0EBE0000124	IC	1	
IC8001	C0ABBA000075	IC	1	
IC8002	C1AB00001828	IC	1	
IC8003	C0JBAE000302	IC	1	
IC8004	C0JBAF000380	IC	1	
IC8005	C0JBAS000110	IC	1	
IC8006	C0JBAB000613	IC	1	
IC8007	C0ABBA000075	IC	1	
IC8008	C0JBAR000423	IC	1	
IC8101	C1AB00002200	IC	1	
IC8203	C0JBAA000175	IC	1	
IC8204	C3EBGC000056	IC	1	
IC8301	AN2546FH-AV	IC	1	
IC8302	C0DBAGZ00016	IC	1	
IC8501	C0ABCA000038	IC	1	
IC8502	C0FBBD000191	IC	1	
IC8601	C1AB00001379	IC	1	
IC8603	C1AB00000084	IC	1	
IC8701	C0DBZGD00038	IC	1	
IC8702	C0DBZGD00038	IC	1	
IC8801	C0BBBA000043	IC	1	
IC8903	AN3917S-E1V	IC	1	
IP1401	K5H3121A0004	FUSE 24V/50A	1	
IP1402	K5H3121A0004	FUSE 24V/50A	1	
IP1421	K5H3121A0004	FUSE 24V/50A	1	
			<u>'</u>	
IR6801	B3RAD0000067	IR RECEIVER	1	
	501(7)5000001	III NEOLITEIN	'	
IK1404	Kaenaboooo	IACK DC IN	4	
JK1401	K2ED2B000002	JACK,DC IN	1	
JK1421	K4ZZ04000033	BATTERY TERMINAL	1	
JK3201	K2HC104B0027	JACK	1	

010201 | 1221010720021 | 01010 | 1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JK4001	K2HC108B0002	JACK	1	
JK4702	K2HC104B0039	JACK	1	
JK4703	K2HC104B0039	JACK	1	
JW1401	K1ZZ00000832	OTHER CONNECTOR	1	
JW1402	K1ZZ00000832	OTHER CONNECTOR	1	
K1001	ERJ2GE0R00X	1/16W 0	1	
K1003	ERJ2GE0R00X	1/16W 0	1	
K1005	ERJ2GE0R00X	1/16W 0	1	
K1007	ERJ2GE0R00X	1/16W 0	1	
K1008	ERJ2GE0R00X	1/16W 0	1	
K1009	ERJ2GE0R00X	1/16W 0	1	
K1010	ERJ2GE0R00X	1/16W 0	1	
K1011	ERJ2GE0R00X	1/16W 0	1	
K1012	ERJ2GE0R00X	1/16W 0	1	
K1013	ERJ2GE0R00X	1/16W 0	1	
K1014	ERJ2GE0R00X	1/16W 0	1	
K1015	ERJ2GE0R00X	1/16W 0	1	
K1016	ERJ2GE0R00X	1/16W 0	1	
K1017	ERJ2GE0R00X	1/16W 0	1	
K1018	ERJ2GE0R00X	1/16W 0	1	
K1019	ERJ2GE0R00X	1/16W 0	1	
K1108	ERJ2GE0R00X	1/16W 0	1	
K1201	ERJ2GE0R00X	1/16W 0	1	
K1202	ERJ2GE0R00X	1/16W 0	1	
K3001	ERJ2GE0R00X	1/16W 0	1	
K3002	ERJ2GE0R00X	1/16W 0	1	
K3003	ERJ2GE0R00X	1/16W 0	1	
K3004	ERJ2GE0R00X	1/16W 0	1	
K5206	ERJ2GE0R00X	1/16W 0	1	
K5207	ERJ2GE0R00X	1/16W 0	1	
L1002	G1C150MA0182	COIL 15UH	1	
L1003	G1C150MA0182	COIL 15UH	1	
L1006	G1C150MA0218	COIL 15UH	1	
L1007	G1C150MA0182	COIL 15UH	1	
L1008	G1C100K00020	CHIP INDUCTOR 10UH	1	
L1009	G1C150MA0182	COIL 15UH	1	
L1010	G1C150Z00004	COIL 15UH	1	
L1102	G1C220KA0038	CHIP INDUCTOR 22UH	1	
L1103	G1C220KA0038	CHIP INDUCTOR 22UH	1	
L1401	G0B200H00005	COIL	1	
L1402	G1C220M00049	COIL	1	
L1403	G1C101KA0023	COIL	1	
L1404	G1C220M00049	COIL	1	
L1415	G1C220KA0055	CHIP INDUCTOR 22UH	1	
L3001	G1C100K00020	CHIP INDUCTOR 10UH	1	
L3002	G1C100K00020	CHIP INDUCTOR 10UH	1	
L3003	J0JCC0000101	COIL	1	
L3004	J0JCC0000101	COIL	1	
L3201	G1C220KA0038	CHIP INDUCTOR 22UH	1	
L3211	G1C100MA0218	COIL	1	
L3251	G1C2R2MA0072	COIL	1	
L4001	G1C220KA0038	CHIP INDUCTOR 22UH	1	
L5201	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8002	ERJ6GEY0R00V	1/10W 0	+ - +	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L8003	ERJ6GEY0R00V	1/10W 0	1	
L8004	ERJ6GEY0R00V	1/10W 0	1	
L8005	J0JCC0000101	COIL	1	
L8006	J0JCC0000101	COIL	1	
L8007	J0JCC0000101	COIL	1	
L8008	J0JCC0000101	COIL	1	
L8009	J0JCC0000101	COIL	1	
L8010	J0JCC0000101	COIL	1	
L8011	J0JCC0000101	COIL	1	
L8012	J0JCC0000101	COIL	1	
L8013	J0JCC0000101	COIL	1	
L8014	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8015	J0JCC0000101	COIL	1	
L8016	J0JCC0000101	COIL	1	
L8017	J0JCC0000101	COIL	1	
	+			
L8018	J0JCC0000101	COIL	1	
L8019	J0JCC0000101	COIL	1	
L8020	J0JCC0000101	COIL	1	
L8021	J0JCC0000101	COIL	1	
L8022	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8025	ERJ6GEY0R00V	1/10W 0	1	
L8101	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8201	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8202	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8301	G1C330KA0055	COIL	1	
L8302	G1C100KA0055	CHIP INDUCTOR 10UH	1	
L8303	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8304	G1C220KA0038	CHIP INDUCTOR 22UH	1	
L8305	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8306	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8501	ERJ6GEY0R00V	1/10W 0	1	
L8601	G1C100K00020	CHIP INDUCTOR 10UH	1	
L8602	ERJ6GEY0R00V	1/10W 0	1	
L8801	G1C220KA0055	CHIP INDUCTOR 22UH	1	
L8904	J0JBC0000036	COIL	1	
L8905	G1CR39JA0041	COIL	1	
L8906	G1C100K00020	CHIP INDUCTOR 10UH	1	
	010100100020	GIIII INDGGTON 10011	•	
LB2601	J0JHC0000045	COIL	1	
LB2651	J0JHC0000045	COIL	1	
LB2652	J0JHC0000045	COIL	1	
LB3001	J0JHC0000045	COIL	1	
LB3001	J0JHC0000045 J0JHC0000045	COIL	1	
			1	
LB3028	J0JHC0000045	COIL		
LB3029	J0JHC0000045	COIL	1	
LB3031	J0JBC0000028	COIL	1	
LB3032	J0JCC0000101	COIL	1	
LB3033	J0JHC0000045	COIL	1	
LB3034	J0JHC0000045	COIL	1	
LB3201	J0JCC0000307	COIL	1	
LB3202	J0JCC0000101	COIL	1	
LB3203	J0JCC0000101	COIL	1	
LB3204	J0JHC0000045	COIL	1	
LB3205	J0JHC0000045	COIL	1	
LB3206	J0JHC0000045	COIL	1	
LB3207	J0JHC0000045	COIL	1	
LD0207				

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB3209	J0JHC0000045	COIL	1	
LB3210	J0JCC0000101	COIL	1	
LB3211	J0JCC0000101	COIL	1	
LB3212	J0JHC0000045	COIL	1	
LB4001	J0JCC0000101	COIL	1	
LB4002	J0JCC0000101	COIL	1	
LB4003	J0JBC0000028	COIL	1	
LB4004	J0JBC0000028	COIL	1	
LB4005	J0JCC0000101	COIL	1	
LB4701	J0JBC0000028	COIL	1	
LB4702	J0JBC0000028	COIL	1	
LB4703	J0JBC0000028	COIL	1	
LB4704	J0JBC0000028	COIL	1	
LB4706	J0JBC0000028	COIL	1	
LB4707	J0JBC0000028	COIL	1	
LB4708	J0JBC0000028	COIL	1	
LB4709	J0JBC0000028	COIL	1	
LB4710	J0JBC0000028	COIL	1	
LB4710 LB4711	J0JBC0000028	COIL	1	
LB5206	J0JBC0000028	COIL	1	
			1	
LB5207	J0JCC0000101	COIL	1	
LB5208		COIL		
LB5209	J0JCC0000101	COIL	1	
LB5210	J0JCC0000101	COIL	1	
LB5211	J0JCC0000101	COIL	1	
LB5212	J0JCC0000101	COIL	1	
LB5213	J0JCC0000101	COIL	1	
LB5216	J0JCC0000101	COIL	1	
LB5218	J0JDC0000080	COIL	1	
LB5219	J0JCC0000101	COIL	1	
LB5221	J0JCC0000307	COIL	1	
LB5222	J0JCC0000101	COIL	1	
LB5223	J0JCC0000307	COIL	1	
LB5224	J0JCC0000101	COIL	1	
LB5226	J0JCC0000101	COIL	1	
LB5227	J0JCC0000101	COIL	1	
LB5228	J0JCC0000101	COIL	1	
LB5229	J0JCC0000101	COIL	1	
LB5230	J0JHC0000045	COIL	1	
LB5231	J0JCC0000101	COIL	1	
LB5232	J0JCC0000101	COIL	1	
LB6002	J0JHC0000045	COIL	1	
LB6201	ERJ3GEY0R00V	1/10W 0	1	
LB6202	ERJ3GEY0R00V	1/10W 0	1	
LB6217	ERJ3GEY0R00V	1/10W 0	1	
LB6221	ERJ3GEY0R00V	1/10W 0	1	
LB6222	ERJ3GEY0R00V	1/10W 0	1	
LB6223	ERJ3GEY0R00V	1/10W 0	1	
LB6224	ERJ3GEY0R00V	1/10W 0	1	
LB6225	ERJ3GEY0R00V	1/10W 0	1	
LB6226	ERJ3GEY0R00V	1/10W 0	1	
LB6227	ERJ3GEY0R00V	1/10W 0	1	
LB6228	ERJ3GEY0R00V	1/10W 0	1	
LB6229	ERJ3GEY0R00V	1/10W 0	1	
LB8001	J0JCC0000186	COIL	1	
LB8002	J0JHC0000045	COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
			_	
P3201	K1KA50BA0060	CONNECTOR(50P)	1	
P8001	K1KA20BA0181	CONNECTOR(20P)	1	
P8006	K1KA26BA0181	CONNECTOR(26P)	1	
Q1001	B1DHCD000023	TRANSISTOR	1	
Q1002	B1DHCD000023	TRANSISTOR	1	
Q1003	B1DHCD000023	TRANSISTOR	1	
Q1004	B1DHCD000023	TRANSISTOR	1	
Q1101	B1BBCF000026	TRANSISTOR	1	
Q1201	B1CFNC000004	TRANSISTOR	1	
Q1202	B1DHCC000039	TRANSISTOR	1	
Q1401	B1DHCD000023	TRANSISTOR	1	
Q1402	B1DHFD000008	TRANSISTOR	1	
Q1403	B1DHFD000008	TRANSISTOR	1	
Q1412	2SB1218ARL	TRANSISTOR	1	
Q1622	B1CFHA000002	TRANSISTOR	1	
Q1623	B1BBCF000031	TRANSISTOR	1	
Q3201	2SB1218ARL	TRANSISTOR	1	
Q3202	2SD132800L	TRANSISTOR	1	
Q3203	2SD1819A0L	TRANSISTOR	1	
Q3204	2SB1218ARL	TRANSISTOR	1	
Q4001	2SD1819A0L	TRANSISTOR	1	
Q4002	2SD1819A0L	TRANSISTOR	1	
Q5201	2SD1819A0L	TRANSISTOR	1	
Q5202	2SD1819A0L	TRANSISTOR	1	
Q5211	B1ADPC000004	TRANSISTOR	1	
Q5215	B1ADPC000004	TRANSISTOR	1	
Q8001	2SB1218ARL	TRANSISTOR	1	
Q8002	2SD1819A0L	TRANSISTOR	1	
Q8003	2SB1218ARL	TRANSISTOR	1	
Q8004	2SD1819A0L	TRANSISTOR	1	
Q8005	2SD1819A0L	TRANSISTOR	1	
Q8007	B1DHFD000008	TRANSISTOR	1	
Q8301	2SB1218ARL	TRANSISTOR	1	
Q8302	XP0450100L	TRANSISTOR	1	
Q8303	B1CFMC000005	TRANSISTOR	1	
Q8304	B1ADPB000002	TRANSISTOR	1	
Q8601	2SB0710ARL	TRANSISTOR	1	
Q8606	2SB1218ARL	TRANSISTOR	1	
Q8608	2SB1218ARL	TRANSISTOR	1	
Q8609	2SB1218ARL	TRANSISTOR	1	
Q8614	2SB1218ARL	TRANSISTOR	1	
Q8618	2SB1218ARL	TRANSISTOR	1	
Q8801	XP0460100L	TRANSISTOR	1	
Q8802	XP0460100L	TRANSISTOR	1	
QR1007	UNR521300L	TRANSISTOR	1	
QR1008	UNR521300L	TRANSISTOR	1	
QR1202	UNR521300L	TRANSISTOR	1	
QR1402	UNR521300L	TRANSISTOR	1	
QR1403	UNR521300L	TRANSISTOR	1	
QR1411	B1ZBZ0000049	TRANSISTOR	1	
QR1413	B1GDCFJN0011	TRANSISTOR	1	
QR1602	UNR521300L	TRANSISTOR	1	
QR1603	UNR521300L	TRANSISTOR	1	
QR3201	B1GDCFJN0011	TRANSISTOR	1	
<b>₩</b> NJ2U I	וויסחפניםוים	TRANSISTOR	<u> </u>	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR3202	UNR521300L	TRANSISTOR	1	
QR4001	UNR521300L	TRANSISTOR	1	
QR4002	B1GDCFJN0011	TRANSISTOR	1	
QR4004	B1GDCFJN0011	TRANSISTOR	1	
QR4005	B1GDCFJN0011	TRANSISTOR	1	
QR4008	UNR521300L	TRANSISTOR	1	
QR4009	B1GFGCAA0001	TRANSISTOR	1	
QR4010	B1GDCFJN0011	TRANSISTOR	1	
QR4011	UNR521300L	TRANSISTOR	1	
QR4014	UNR521300L	TRANSISTOR	1	
QR4015	UNR521300L	TRANSISTOR	1	
QR4016	UNR521300L	TRANSISTOR	1	
QR4017	UNR521300L	TRANSISTOR	1	
QR4018	UNR521300L	TRANSISTOR	1	
QR4702	B1GFGCAA0001	TRANSISTOR	1	
QR4703	B1GFGCAA0001	TRANSISTOR	1	
QR5221	UNR212100L	TRANSISTOR	1	
QR6001	UNR521300L	TRANSISTOR	1	
QR6002	UNR521300L	TRANSISTOR	1	
QR6002	UNR521300L	TRANSISTOR	1	
	UNR521300L		1	
QR8001		TRANSISTOR	-	
QR8304	UNR221100L	TRANSISTOR	1	
QR8305	UNR211100L	TRANSISTOR RESISTOR	1	
QR8306	UNR221100L	TRANSISTOR	1	
QR8602	UNR521300L	TRANSISTOR	1	
QR8603	UNR511300L	TRANSISTOR	1	
QR8604	UNR521300L	TRANSISTOR	1	
QR8605	UNR221100L	TRANSISTOR	1	
QR8606	UNR211100L	TRANSISTOR RESISTOR	1	
QR8607	UNR521300L	TRANSISTOR	1	
R1005	ERJ2RHD103X	1/16W 10K	1	
R1006	ERJ2RHD563X	1/16W 56K	1	
R1011	ERJ2GEJ472X	1/16W 4.7K	1	
R1012	ERJ2RHD103X	1/16W 10K	1	
R1013	ERJ2RHD333X	1/16W 33K	1	
R1014	ERJ2RHD103X	1/16W 10K	1	
R1015	ERJ2RHD333X	1/16W 33K	1	
R1016	ERJ2GEJ183X	1/16W 18K	1	
R1018	ERJ2GEJ822X	1/16W 8.2K	1	
R1019	ERJ2RHD472X	1/16W 4.7K	1	
R1020	ERJ2GEJ272X	1/16W 2.7K	1	
R1022	ERJ2RHD123X	1/16W 12K	1	
R1023	ERJ2RHD333X	1/16W 33K	1	
R1027	ERJ2RHD332X	1/16W 3.3K	1	
R1028	ERJ2RHD332X	1/16W 3.3K	1	
R1029	ERJ2RHD333X	1/16W 33K	1	
R1030	ERJ2RHD332X	1/16W 3.3K	1	
R1032	ERJ2RHD183X	1/16W 18K	1	
R1033	ERJ2RHD102X	1/16W 1K	1	
R1034	ERJ2RHD822X	1/16W 8.2K	1	
R1035	ERJ2GEJ331X	1/16W 330	1	
R1037	ERJ2RHD393X	1/16W 39K	1	
R1038	ERJ2RHD102X	1/16W 1K	1	
R1039	ERJ2RHD822X	1/16W 8.2K	1	
R1040	ERJ2RHD122X	1/16W 1.2K	1	
R1042	ERJ2GEJ563X	1/16W 56K	1	
11174	LINUZULUUUA	17 10 TV 3010	_ '	

.....

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1043	ERJ2GEJ393X	1/16W 39K	1	
R1044	ERJ3GEYJ102V	1/10W 1K	1	
R1045	ERJ2GEJ102X	1/16W 1K	1	
R1046	ERJ2RHD183X	1/16W 18K	1	
R1047	ERJ2RHD102X	1/16W 1K	1	
R1048	ERJ2RHD682X	1/16W 6.8K	1	
R1049	ERJ2RHD221X	1/16W 220	1	
R1060	ERJ2GEJ151X	1/16W 150	1	
R1061	ERJ2GEJ822X	1/16W 8.2K	1	
R1063	ERJ2RHD123X	1/16W 12K	1	
R1064	ERJ2RHD333X	1/16W 33K	1	
R1101	ERJ2GEJ562X	1/16W 5.6K	1	
R1102	ERJ2RHD683X	1/16W 68K	1	
R1103	ERJ2RHD182X	1/16W 1.8K	1	
R1104	ERJ2RHD562X	1/16W 5.6K	1	
R1105	ERJ2GE0R00X	1/16W 0	1	
R1106	ERJ3GEYJ100V	1/10W 10	1	
R1107	ERJ3GEYJ100V	1/10W 10	1	
R1108	ERJ3GEYJ330V	1/10W 33	1	
R1109	ERJ3GEYJ100V	1/10W 10	1	
R1110	ERJ2GE0R00X	1/16W 0	1	
R1204	ERJ2GEJ473X	1/16W 47K	1	
R1401	ERJ2GEJ333X	1/16W 33K	1	
R1406	ERJ2RHD223X	1/16W 22K	1	
R1407	ERJ2RHD332X	1/16W 3.3K	1	
R1409	ERJ2GEJ103X	1/16W 10K	1	
R1410	ERJ2GEJ103X	1/16W 10K	1	
R1411	ERJ2GEJ103X	1/16W 10K	1	
R1412	ERJ2GEJ104X	1/16W 100K	1	
R1413	ERJ2GEJ223X	1/16W 22K	1	
R1414	ERJ2GEJ103X	1/16W 10K	1	
R1415	ERJ2GEJ103X	1/16W 10K	1	
R1416	ERJ2GEJ473X	1/16W 47K	1	
R1418	ERJ2GEJ105X	1/16W 1M	1	
R1419	ERJ2GEJ333X	1/16W 33K	1	
R1420	ERJ2RHD223X	1/16W 22K	1	
R1421	ERJ2RHD332X	1/16W 3.3K	1	
R1423	ERJ3GEY0R00V	1/10W 0	1	
R1621	D1BFR220A007	RESISTOR	1	
R1622	ERJ2RHD103X	1/16W 10K	1	
R1623	ERJ2RHD103X	1/16W 0.1M	1	
R1624	ERJ2RHD104X	1/16W 0.1M	1	
R1625	ERJ2RHD104X		1	
R1626		1/16W 0.1M	1	
	ERJ2RHD103X	1/16W 10K		
R1627	ERJ2RHD104X	1/16W 0.1M	1	
R1628	ERJ2RHD473X	1/16W 47K	1	
R1629	ERJ2RHD104X	1/16W 0.1M	1	
R1630	ERJ2RHD123X	1/16W 12K	1	
R1631	ERJ2RHD563X	1/16W 56K	1	
R1633	ERJ2GEJ102X	1/16W 1K	1	
R1635	ERJ2GEJ473X	1/16W 47K	1	
R1638	ERJ2GEJ102X	1/16W 1K	1	
R1643	ERJ2GEJ103X	1/16W 10K	1	
R2501	ERJ2GEJ471X	1/16W 470	1	
R2523	ERJ2GEJ473X	1/16W 47K	1	
R2601	ERJ2GEJ103X	1/16W 10K	1	
R2602	ERJ2GEJ103X	1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2651	ERJ2GEJ471X	1/16W 470	1	
R2652	ERJ12RQJR68U	1/2W 68	1	
R2653	ERJ2GEJ153X	1/16W 15K	1	
R3001	ERJ2GEJ100X	1/16W 10	1	
R3003	ERJ2GEJ100X	1/16W 10	1	
R3004	ERJ2GEJ101X	1/16W 100	1	
R3005	ERJ2GEJ473X	1/16W 47K	1	
R3007	ERJ2GEJ104X	1/16W 100K	1	
R3008	ERJ2GEJ104X	1/16W 100K	1	
R3009	ERJ2GEJ333X	1/16W 33K	1	
R3010	ERJ2GEJ680X	1/16W 68	1	
R3011	ERJ2GEJ182X	1/16W 1.8K	1	
R3013	ERJ2GEJ330X	1/16W 33	1	
R3014	ERJ3RBD333V	1/16W 33K	1	
R3015	ERJ2GEJ331X	1/16W 330	1	
R3016	ERJ2GEJ471X	1/16W 470	1	
R3017	ERJ2GEJ471X	1/16W 470	1	
R3018	ERJ2GEJ471X	1/16W 470	1	
R3019	ERJ3RBD102V	1/16W 1K	1	
R3019	ERJ2GEJ221X	1/16W 1K	1	
R3020	ERJ2GEJ221X ERJ2GEJ105X	1/16W 1M	1	
			1	
R3022	ERJ3RBD222V ERJ3RBD331V	1/16W 2.2K	1	
R3023		1/16W 330		
R3024	ERJ3RBD181V	1/16W 180	1	
R3025	ERJ2GEJ390X	1/16W 39	1	
R3026	ERJ3RBD181V	1/16W 180	1	
R3027	ERJ2GEJ330X	1/16W 33	1	
R3028	ERJ2GEJ103X	1/16W 10K	1	
R3029	ERJ2GEJ103X	1/16W 10K	1	
R3030	ERJ3RBD181V	1/16W 180	1	
R3031	ERJ2GEJ270X	1/16W 27	1	
R3032	ERJ3RBD181V	1/16W 180	1	
R3033	ERJ2GEJ270X	1/16W 27	1	
R3034	ERJ3RBD181V	1/16W 180	1	
R3035	ERJ2GEJ270X	1/16W 27	1	
R3036	ERJ2GEJ100X	1/16W 10	1	
R3037	ERJ2GEJ470X	1/16W 47	1	
R3038	ERJ2GEJ100X	1/16W 10	1	
R3039	ERJ2GEJ100X	1/16W 10	1	
R3040	ERJ2GEJ100X	1/16W 10	1	
R3041	ERJ2GEJ100X	1/16W 10	1	
R3042	ERJ2GEJ103X	1/16W 10K	1	
R3044	ERJ2GEJ472X	1/16W 4.7K	1	
R3201	ERJ3GEY0R00V	1/10W 0	1	
R3202	ERJ3GEY0R00V	1/10W 0	1	
R3203	ERJ2GE0R00X	1/16W 0	1	
R3205	ERJ3GEY0R00V	1/10W 0	1	
R3206	ERJ3GEY0R00V	1/10W 0	1	
R3207	ERJ3GEY0R00V	1/10W 0	1	
R3208	ERJ3GEY0R00V	1/10W 0	1	
R3209	ERJ3GEY0R00V	1/10W 0	1	
R3210	ERJ3GEY0R00V	1/10W 0	1	
R3212	ERJ3GEY0R00V	1/10W 0	1	
R3213	ERJ3GEY0R00V	1/10W 0	1	
R3214	ERJ2GEJ821X	1/16W 820	1	
R3215	ERJ2GE0R00X	1/16W 0	1	
R3217	ERJ3RED750V	1/16W 75	1	
	LINGUILD! 30 V	17101170	'	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3218	ERJ2GEJ101X	1/16W 100	1	
R3220	ERJ2GEJ183X	1/16W 18K	1	
R3221	ERJ2GEJ224X	1/16W 220K	1	
R3222	ERJ2GEJ104X	1/16W 100K	1	
R3223	ERJ2GEJ103X	1/16W 10K	1	
R3224	ERJ2GEJ392X	1/16W 3.9K	1	
R3225	ERJ2GEJ104X	1/16W 100K	1	
R3226	ERJ2GEJ102X	1/16W 1K	1	
R3227	ERJ2GEJ222X	1/16W 2.2K	1	
R3228	ERJ3GEY0R00V	1/10W 0	1	
R3229	ERJ3GEY0R00V	1/10W 0	1	
R3230	ERJ3GEY0R00V	1/10W 0	1	
R3231	ERJ3GEY0R00V	1/10W 0	1	
R3232	ERJ2GEJ101X	1/16W 100	1	
R3233	ERJ2GEJ101X	1/16W 100	1	
R3234	ERJ2GEJ101X	1/16W 100	1	
R3235	ERJ2GEJ101X	1/16W 100	1	
R3236	ERJ2GEJ101X	1/16W 1K	1	
R3237	ERJ2GEJ101X	1/16W 100	1	
R3247	ERJ2GEJ332X	1/16W 3.3K	1	
R3247	ERJ3GEY0R00V	1/10W 0	1	
R4001	ERJ2GEJ273X	1/16W 0	1	
R4002	ERJ2GEJ273X	1/16W 27K	1	
R4002	ERJ2GEJ373X	1/16W 33K	1	
R4004	ERJ2GEJ333X	1/16W 33K	1	
R4004	ERJ2GEJ333X	1/16W 47K	1	
R4005	ERJ2GEJ473X	1/16W 47K	1	
	ERJ2GEJ473X	-	1	
R4007		1/16W 47K		
R4008	ERJ2GEJ473X	1/16W 47K	1	
R4009	ERJ2GEJ101X	1/16W 100	1	
R4010	ERJ2GEJ101X	1/16W 100	1	
R4012	ERJ2GEJ472X	1/16W 4.7K	1	
R4015	ERJ2GEJ821X	1/16W 820	1	
R4016	ERJ2GEJ821X	1/16W 820	1	
R4017	ERJ2GE0R00X	1/16W 0	1	
R4018	ERJ2GE0R00X	1/16W 0	1	
R4019	ERJ2GEJ153X	1/16W 15K	1	
R4020	ERJ2GEJ153X	1/16W 15K	1	
R4023	ERJ2GEJ103X	1/16W 10K	1	
R4024	ERJ2GEJ103X	1/16W 10K	1	
R4025	ERJ2GEJ103X	1/16W 10K	1	
R4026	ERJ2GEJ103X	1/16W 10K	1	
R4031	ERJ2GEJ563X	1/16W 56K	1	
R4032	ERJ2GEJ563X	1/16W 56K	1	
R4033	ERJ2GEJ100X	1/16W 10	1	
R4034	ERJ2GEJ100X	1/16W 10	1	
R4035	ERJ2GEJ103X	1/16W 10K	1	
R4036	ERJ2GEJ103X	1/16W 10K	1	
R4038	ERJ2GEJ104X	1/16W 100K	1	
R4039	ERJ2GEJ103X	1/16W 10K	1	
R4041	ERJ2GEJ102X	1/16W 1K	1	
R4046	ERJ2GEJ473X	1/16W 47K	1	
R4047	ERJ2GEJ473X	1/16W 47K	1	
R4048	ERJ2GEJ222X	1/16W 2.2K	1	
R4049	ERJ2GEJ222X	1/16W 2.2K	1	
R4050	ERJ2GEJ473X	1/16W 47K	1	
R4051	ERJ2GEJ473X	1/16W 47K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4052	ERJ2GEJ222X	1/16W 2.2K	1	
R4053	ERJ2GEJ102X	1/16W 1K	1	
R4054	ERJ2GEJ104X	1/16W 100K	1	
R4055	ERJ2GEJ472X	1/16W 4.7K	1	
R4061	ERJ2GE0R00X	1/16W 0	1	
R4065	ERJ2GEJ682X	1/16W 6.8K	1	
R4066	ERJ2GEJ682X	1/16W 6.8K	1	
R4072	ERJ2GEJ104X	1/16W 100K	1	
R4073	ERJ2GEJ104X	1/16W 100K	1	
R4076	ERJ2GEJ473X	1/16W 47K	1	
R4078	ERJ2GEJ2R2X	1/16W 2.2	1	
R4101	ERJ2GEJ103X	1/16W 10K	1	
R4102	ERJ2GEJ103X	1/16W 10K	1	
R4103	ERJ2GEJ123X	1/16W 12K	1	
R4104	ERJ2GEJ103X	1/16W 10K	1	
R4701	ERJ2GEJ473X	1/16W 47K	1	
R4702	ERJ2GEJ473X	1/16W 47K	1	
R4703	ERJ2GEJ562X	1/16W 5.6K	1	
R4704	ERJ2GEJ562X	1/16W 5.6K	1	
R4704	ERJ2GEJ302X	1/16W 22K	1	
R4707	ERJ2GEJ223X ERJ2GEJ102X	1/16W 1K	1	
R4709	ERJ2GEJ102X ERJ2GEJ223X	1/16W 1K	1	
R4711	ERJ2GEJ100X	1/16W 10	1	
R4711	ERJ2GEJ100X	1/16W 10	1	
R4712	ERJ8GEYJ1R5V	1/4W 1.5	1	
R4726	ERJ8GEYJ1R5V	1/4W 1.5	1	
R4727	ERJ2GEJ102X	1/4W 1.5	1	
	ERJ2GEJ102X	1/16W 1K	1	
R4728				
R4729	ERJ2GEJ472X	1/16W 4.7K	1	
R4730	ERJ2GEJ472X	1/16W 4.7K	1	
R4731	ERJ8GEYJ1R5V	1/4W 1.5	1	
R4732	ERJ2GEJ1R5X	1/16W 1.5	1	
R4733	ERJ2GEJ102X	1/16W 1K	1	
R4734	ERJ2GEJ102X	1/16W 1K	1	
R4735	ERJ2GEJ472X	1/16W 4.7K	1	
R4736	ERJ2GEJ472X	1/16W 4.7K	1	
R5201	ERJ2GEJ223X	1/16W 22K	1	
R5203	ERJ2GEJ333X	1/16W 33K	1	
R5204	ERJ2GEJ102X	1/16W 1K	1	
R5205	ERJ2GEJ102X	1/16W 1K	1	
R5208	ERJ2GEJ331X	1/16W 330	1	
R5209	ERJ2GEJ331X	1/16W 330	1	
R5210	ERJ2GEJ100X	1/16W 10	1	
R5211	ERJ2GEJ2R2X	1/16W 2.2	1	
R5212	ERJ12YJ270U	1/2W 27	1	
R5213	ERJ2GEJ473X	1/16W 47K	1	
R5214	ERJ2GEJ153X	1/16W 15K	1	
R5215	ERJ2GEJ2R2X	1/16W 2.2	1	
R5216	ERJ12YJ270U	1/2W 27	1	
R5217	ERJ2GEJ473X	1/16W 47K	1	
R5218	ERJ2GEJ100X	1/16W 10	1	
R5219	ERJ3RED910V	1/16W 91	1	
R5220	ERJ3RED910V	1/16W 91	1	
R5221	ERJ2GEJ102X	1/16W 1K	1	
R6004	ERJ3RBD273V	1/16W 27K	1	
R6005	ERJ3RBD103V	1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6010	ERJ3RBD333V	1/16W 33K	1	
R6011	ERJ2GE0R00X	1/16W 0	1	
R6013	ERJ3RBD562V	1/16W 5.6K	1	
R6019	ERJ2GE0R00X	1/16W 0	1	
R6022	ERJ2GEJ152X	1/16W 1.5K	1	
R6026	ERJ2GEJ103X	1/16W 10K	1	
R6027	ERJ2GEJ273X	1/16W 27K	1	
R6030	ERJ3GEY0R00V	1/10W 0	1	
R6032	ERJ2GEJ473X	1/16W 47K	1	
R6033	ERJ3GEY0R00V	1/10W 0	1	
R6034	ERJ3GEY0R00V	1/10W 0	1	
R6035	ERJ3GEY0R00V	1/10W 0	1	
R6040	ERJ2GEJ473X	1/16W 47K	1	
R6042	ERJ2GE0R00X	1/16W 0	1	
R6043	ERJ2RHD104X	1/16W 0.1M	1	
R6049	ERJ2GEJ473X	1/16W 47K	1	
R6201	ERJ2GE0R00X	1/16W 0	1	
R6202	ERJ2GEJ221X	1/16W 220	1	
R6203	ERJ2GEJ221X	1/16W 220	1	
R6801	ERJ2GEJ122X	1/16W 1.2K	1	
R6802	ERJ2GEJ122X	1/16W 1.2K	1	
R6803	ERJ2GEJ152X	1/16W 1.5K	1	
R6804	ERJ2GEJ222X	1/16W 2.2K	1	
R6805	ERJ2GEJ331X	1/16W 330	1	
R6806	ERJ2GEJ151X	1/16W 150	1	
R6807	ERJ2GEJ331X	1/16W 330	1	
R6808	ERJ2GEJ220X	1/16W 22	1	
R6811	ERJ2GEJ272X	1/16W 2.7K	1	
R6812	ERJ2GEJ222X	1/16W 2.2K	1	
R6813	ERJ2GEJ332X	1/16W 3.3K	1	
R6814	ERJ2GEJ472X	1/16W 4.7K	1	
R6815	ERJ2GEJ682X	1/16W 6.8K	1	
R6816	ERJ2GEJ153X	1/16W 15K	1	
R6817	ERJ2GEJ473X	1/16W 47K	1	
R6821	ERJ2GEJ473X ERJ2GEJ122X	1/16W 1.2K	1	
R6822	ERJ2GEJ122X ERJ2GEJ152X	1/16W 1.2K	1	
R6823		1/16W 1.5K		
R6824	ERJ2GEJ222X		1	
	ERJ2GEJ332X	1/16W 3.3K	1	
R6825	ERJ2GEJ472X	1/16W 4.7K	1	
R6826	ERJ2GEJ682X	1/16W 6.8K	1	
R6827	ERJ2GEJ153X	1/16W 15K	1	
R6828	ERJ2GEJ473X	1/16W 47K	1	
R6831	ERJ2GEJ331X	1/16W 330	1	
R6897	ERJ3GEY0R00V	1/10W 0	1	
R6898	ERJ3GEY0R00V	1/10W 0	1	
R6899	ERJ3GEY0R00V	1/10W 0	1	
R6901	ERJ2GEJ100X	1/16W 10	1	
R6902	ERJ2GEJ100X	1/16W 10	1	
R6903	ERJ2GEJ100X	1/16W 10	1	
R6904	ERJ2GEJ100X	1/16W 10	1	
R6905	ERJ2GEJ100X	1/16W 10	1	
R6906	ERJ2GEJ100X	1/16W 10	1	
R8002	ERJ2GEJ103X	1/16W 10K	1	
R8004	ERJ2GEJ562X	1/16W 5.6K	1	
R8005	ERJ2GEJ272X	1/16W 2.7K	1	
R8006	ERJ2GE0R00X	1/16W 0	1	
R8007	ERJ2GE0R00X	1/16W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8008	ERJ2GE0R00X	1/16W 0	1	
R8009	ERJ2GEJ103X	1/16W 10K	1	
R8010	ERJ2GEJ331X	1/16W 330	1	
R8011	ERJ2GEJ331X	1/16W 330	1	
R8012	ERJ2GEJ331X	1/16W 330	1	
R8013	ERJ2GE0R00X	1/16W 0	1	
R8014	ERJ2GE0R00X	1/16W 0	1	
R8015	ERJ2GE0R00X	1/16W 0	1	
R8016	ERJ2GEJ101X	1/16W 100	1	
R8017	ERJ2GEJ101X	1/16W 100	1	
R8018	ERJ2GEJ121X	1/16W 120	1	
R8019	ERJ2GEJ101X	1/16W 100	1	
R8020	ERJ2GEJ101X	1/16W 100	1	
R8021	ERJ2GE0R00X	1/16W 0	1	
R8022	ERJ2GEJ183X	1/16W 18K	1	
R8023	ERJ2GEJ272X	1/16W 2.7K	1	
R8024	ERJ2GEJ222X	1/16W 2.2K	1	
R8025	ERJ2GEJ222X	1/16W 2.2K	1	
R8026	ERJ2GE0R00X	1/16W 0	1	
R8027	ERJ2GE0R00X	1/16W 0	1	
R8028	ERJ2GE0R00X	1/16W 0	1	
R8029	J0JBC0000086	COIL	1	
R8030	J0JBC0000086	COIL	1	
R8031	J0JBC0000086	COIL	1	
R8032	J0JBC0000086	COIL	1	
R8033	J0JBC0000086	COIL	1	
R8034		COIL	1	
	J0JBC0000086		1	
R8035	J0JBC0000086	COIL		
R8036	J0JBC0000086	COIL	1	
R8037	J0JBC0000086	COIL	1	
R8038	J0JBC0000086	COIL	1	
R8039	J0JBC0000086	COIL	1	
R8040	J0JBC0000086	COIL	1	
R8041	J0JBC0000086	COIL	1	
R8042	J0JBC0000086	COIL	1	
R8043	J0JBC0000086	COIL	1	
R8044	J0JBC0000086	COIL	1	
R8045	J0JBC0000086	COIL	1	
R8046	J0JBC0000086	COIL	1	
R8047	ERJ2GE0R00X	1/16W 0	1	
R8048	ERJ2GE0R00X	1/16W 0	1	
R8049	J0JCC0000186	COIL	1	
R8050	ERJ2GE0R00X	1/16W 0	1	
R8051	ERJ3GEYJ472V	1/10W 4.7K	1	
R8052	ERJ2GE0R00X	1/16W 0	1	
R8053	ERJ2GE0R00X	1/16W 0	1	
R8054	ERJ2GE0R00X	1/16W 0	1	
R8055	ERJ2GE0R00X	1/16W 0	1	
R8056	ERJ2GE0R00X	1/16W 0	1	
R8057	ERJ2GE0R00X	1/16W 0	1	
R8058	ERJ2GE0R00X	1/16W 0	1	
R8059	ERJ2GE0R00X	1/16W 0	1	
R8060	ERJ2GE0R00X	1/16W 0	1	
R8061	ERJ2GE0R00X	1/16W 0	1	
R8062	ERJ2GE0R00X	1/16W 0	1	
R8063	J0JCC0000119	COIL	1	
1,0003	***************************************	30.L		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8065	J0JCC0000119	COIL	1	
R8066	ERJ2GEJ101X	1/16W 100	1	
R8067	ERJ2GE0R00X	1/16W 0	1	
R8068	ERJ2GE0R00X	1/16W 0	1	
R8069	ERJ2GEJ101X	1/16W 100	1	
R8070	ERJ2GE0R00X	1/16W 0	1	
R8071	ERJ2GE0R00X	1/16W 0	1	
R8072	ERJ2GE0R00X	1/16W 0	1	
R8074	ERJ2GEJ103X	1/16W 10K	1	
R8075	ERJ2GEJ101X	1/16W 100	1	
R8076	ERJ2GEJ102X	1/16W 1K	1	
R8077	ERJ2GEJ101X	1/16W 100	1	
R8078	J0JCC0000101	COIL	1	
R8079	ERJ2GEJ102X	1/16W 1K	1	
R8080	ERJ2GEJ220X	1/16W 22	1	
R8081	ERJ2GEJ221X	1/16W 220	1	
R8082	ERJ2GEJ102X	1/16W 1K	1	
R8085	ERJ2GE0R00X	1/16W 0	1	
R8086	ERJ2GE0R00X	1/16W 0	1	
R8088	ERJ3GEY0R00V	1/10W 0	1	
R8090	ERJ2GEJ102X	1/16W 1K	1	
R8091	ERJ3GEYJ391V	1/10W 390	1	
R8092	ERJ2GEJ104X	1/16W 100K	1	
R8101	ERJ2GEJ101X	1/16W 100	1	
R8102	ERJ3GEY0R00V	1/10W 0	1	
R8110	J0JCC0000307	COIL	1	
R8111	J0JHC0000045	COIL	1	
R8112	J0JCC0000307	COIL	1	
R8113	J0JCC0000307	COIL	1	
R8114	J0JCC0000307	COIL	1	
	J0JCC0000307		1	
R8115		COIL	1	
R8116	J0JCC0000307	COIL		
R8117	J0JCC0000307	COIL	1	
R8118	J0JCC0000307	COIL	1	
R8119	J0JCC0000307	COIL	1	
R8120	J0JCC0000307	COIL	1	
R8121	J0JCC0000307	COIL	1	
R8122	J0JCC0000307	COIL	1	
R8123	J0JCC0000307	COIL	1	
R8124	J0JCC0000307	COIL	1	
R8125	J0JCC0000307	COIL	1	
R8126	J0JHC0000045	COIL	1	
R8127	ERJ3GEY0R00V	1/10W 0	1	
R8128	ERJ3GEY0R00V	1/10W 0	1	
R8151	ERJ3GEY0R00V	1/10W 0	1	
R8152	ERJ3GEY0R00V	1/10W 0	1	
R8153	ERJ3GEY0R00V	1/10W 0	1	
R8154	ERJ3GEY0R00V	1/10W 0	1	
R8155	ERJ3GEY0R00V	1/10W 0	1	
R8156	ERJ3GEY0R00V	1/10W 0	1	
R8157	ERJ3GEY0R00V	1/10W 0	1	
R8158	ERJ3GEY0R00V	1/10W 0	1	
R8159	ERJ3GEY0R00V	1/10W 0	1	
R8160	ERJ3GEY0R00V	1/10W 0	1	
R8161	ERJ3GEY0R00V	1/10W 0	1	
R8162	ERJ3GEY0R00V	1/10W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8165	ERJ3GEY0R00V	1/10W 0	1	
R8166	ERJ3GEY0R00V	1/10W 0	1	
R8203	ERJ2GEJ332X	1/16W 3.3K	1	
R8204	ERJ2GEJ221X	1/16W 220	1	
R8301	ERJ2GE0R00X	1/16W 0	1	
R8302	ERJ2GEJ472X	1/16W 4.7K	1	
R8303	ERJ2GEJ332X	1/16W 3.3K	1	
R8304	ERJ2GE0R00X	1/16W 0	1	
R8306	ERJ2GEJ101X	1/16W 100	1	
R8307	ERJ2GEJ101X	1/16W 100	1	
R8308	ERJ2GEJ101X	1/16W 100	1	
R8309	ERJ2GEJ105X	1/16W 1M	1	
R8310	ERJ2GEJ332X	1/16W 3.3K	1	
R8311	ERJ2GEJ103X	1/16W 10K	1	
R8314	ERJ2GEJ562X	1/16W 5.6K	1	
R8315	ERJ2GEJ392X	1/16W 3.9K	1	
R8340	ERJ2GEJ471X	1/16W 470	1	
R8342	ERJ2GEJ471X	1/16W 470	1	
R8345	ERJ2GEJ561X	1/16W 560	1	
R8346	ERJ2GEJ333X	1/16W 33K	1	
R8347	ERJ2GEJ153X	1/16W 15K	1	
R8348	ERJ2GEJ683X	1/16W 68K	1	
R8349	ERJ2GEJ102X	1/16W 1K	1	
R8351	ERJ2GEJ473X	1/16W 47K	1	
R8352	ERJ2GE0R00X	1/16W 0	1	
R8356	ERJ2GEJ473X	1/16W 47K	1	
R8357	ERJ2RHD104X	1/16W 0.1M	1	
R8358	ERJ2RHD123X	1/16W 12K	1	
R8359	ERJ2GEJ332X	1/16W 3.3K	1	
R8360	ERJ2GEJ332X	1/16W 3.3K	1	
R8361	ERJ2GEJ562X	1/16W 5.6K	1	
R8362	ERJ2GEJ103X	1/16W 10K	1	
	ERJ2GEJ223X		1	
R8363		1/16W 22K		
R8364	ERJ2GEJ332X	1/16W 3.3K	1	
R8409	ERJ2GE0R00X	1/16W 0	1	
R8501	ERJ2GEJ472X	1/16W 4.7K	1	
R8502	ERJ2GEJ183X	1/16W 18K	1	
R8503	ERJ2GEJ223X	1/16W 22K	1	
R8504	ERJ2GEJ123X	1/16W 12K	1	
R8505	ERJ2GEJ153X	1/16W 15K	1	
R8506	ERJ2GEJ682X	1/16W 6.8K	1	
R8507	ERJ2GEJ683X	1/16W 68K	1	
R8508	ERJ2GEJ183X	1/16W 18K	1	
R8509	ERJ2GEJ333X	1/16W 33K	1	
R8510	ERJ2GEJ223X	1/16W 22K	1	
R8511	ERJ2GEJ562X	1/16W 5.6K	1	
R8512	ERJ2GEJ103X	1/16W 10K	1	
R8513	ERJ2GEJ103X	1/16W 10K	1	
R8514	ERJ2GE0R00X	1/16W 0	1	
R8515	ERJ2GEJ683X	1/16W 68K	1	
R8516	ERJ2GEJ220X	1/16W 22	1	
R8517	ERJ2GEJ220X	1/16W 22	1	
R8518	ERJ2GEJ220X	1/16W 22	1	
R8601	ERJ2GEJ272X	1/16W 2.7K	1	
R8602	ERJ2GEJ332X	1/16W 3.3K	1	
R8603	ERJ2GEJ272X	1/16W 2.7K	1	
R8604	ERJ2GEJ472X	1/16W 4.7K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8605	ERJ2GE0R00X	1/16W 0	1	
R8606	J0JHC0000045	COIL	1	
R8608	J0JBC0000036	COIL	1	
R8611	J0JBC0000036	COIL	1	
R8612	J0JCC0000307	COIL	1	
R8613	J0JCC0000307	COIL	1	
R8614	J0JCC0000307	COIL	1	
R8615	J0JCC0000307	COIL	1	
R8618	ERJ2GEJ102X	1/16W 1K	1	
R8619	ERJ2GEJ102X	1/16W 1K	1	
R8620	ERJ2GEJ102X	1/16W 1K	1	
R8621	ERJ2GE0R00X	1/16W 0	1	
R8622	ERJ2GEJ222X	1/16W 2.2K	1	
R8623	ERJ2GE0R00X	1/16W 0	1	
R8624	ERJ2GEJ332X	1/16W 3.3K	1	
R8626	ERJ2GEJ222X	1/16W 2.2K	1	
R8627	ERJ2GEJ821X	1/16W 820	1	
R8628	ERJ2GEJ821X	1/16W 820	1	
R8629	ERJ2GEJ821X	1/16W 820	1	
R8630	ERJ2GE0R00X	1/16W 0	1	
R8633	ERJ2GEJ472X	1/16W 4.7K	1	
R8641	ERJ2GEJ271X	1/16W 270	1	
R8647	ERJ2GEJ271X	1/16W 270	1	
R8649	ERJ2GEJ101X	1/16W 100	1	
R8651	ERJ2GEJ224X	1/16W 220K	1	
R8653	ERJ2GEJ103X	1/16W 10K	1	
R8655	ERJ2GEJ104X	1/16W 100K	1	
R8657	ERJ2GE0R00X	1/16W 0	1	
R8659	ERJ2GEJ392X	1/16W 3.9K	1	
	ERJ2GE0R00X		1	
R8662 R8677		1/16W 0	1	
	ERJ2GEJ123X ERJ3GEYJ621V	1/16W 12K		
R8679		1/10W 620	1	
R8680	ERJ3GEYJ621V	1/10W 620	1	
R8682	ERJ2GEJ273X	1/16W 27K	1	
R8684	ERJ2GEJ473X	1/16W 47K	1	
R8685	ERJ2GE0R00X	1/16W 0	1	
R8701	ERJ2GEJ473X	1/16W 47K	1	
R8702	ERJ2GEJ473X	1/16W 47K	1	
R8705	ERJ2GEJ272X	1/16W 2.7K	1	
R8801	ERJ2GEJ222X	1/16W 2.2K	1	
R8802	ERJ2GEJ222X	1/16W 2.2K	1	
R8803	ERJ2GEJ332X	1/16W 3.3K	1	
R8804	ERJ2GEJ222X	1/16W 2.2K	1	
R8805	ERJ2GEJ123X	1/16W 12K	1	
R8806	ERJ2GEJ123X	1/16W 12K	1	
R8807	ERJ2GEJ123X	1/16W 12K	1	
R8808	ERJ2GEJ123X	1/16W 12K	1	
R8816	ERJ3RED100V	1/16W 10	1	
R8817	ERJ3RED470V	1/16W 47	1	
R8818	ERJ3RED910V	1/16W 91	1	
R8819	ERJ3RBD101V	1/16W 100	1	
R8820	ERJ3RED910V	1/16W 91	1	
R8821	ERJ3RED820V	1/16W 82	1	
R8822	ERJ3RBD101V	1/16W 100	1	
R8823	ERJ3RBD101V	1/16W 100	1	
R8824	ERJ3RBD181V	1/16W 180	1	
R8825	ERJ3RBD151V	1/16W 150	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8826	ERJ3RED390V	1/16W 39	1	
R8827	ERJ3RED100V	1/16W 10	1	
R8902	ERJ2GE0R00X	1/16W 0	1	
R8903	ERJ2GEJ682X	1/16W 6.8K	1	
R8904	ERJ3GEYJ392V	1/10W 3.9K	1	
R8906	ERJ2GEJ103X	1/16W 10K	1	
R8908	ERJ2GE0R00X	1/16W 0	1	
R8909	ERJ2GEJ103X	1/16W 10K	1	
R8910	ERJ2GEJ103X	1/16W 10K	1	
R8916	J0JBC0000036	COIL	1	
R8920	ERJ2GEJ222X	1/16W 2.2K	1	
R8921	ERJ2GEJ391X	1/16W 390	1	
R8923	ERJ2GEJ561X	1/16W 560	1	
R8924	ERJ3RBD561V	1/16W 560	1	
R8926	ERJ2GE0R00X	1/16W 0	1	
R8927	ERJ2GEJ221X	1/16W 220	1	
R8932	ERJ2GEJ332X	1/16W 3.3K	1	
R8933	ERJ2GEJ223X	1/16W 22K	1	
R8934	ERJ2GEJ223X	1/16W 22K	1	
R8935	ERJ2GEJ223X	1/16W 22K	1	
R8987	ERJ2GEJ223X	1/16W 6.8K	1	
R8988	ERJ2GEJ392X	1/16W 3.9K	1	
110300	LNJZGLJJJZX	171000 3.310	'	
RX3001	D1H81034A024	RESISTOR-RESISTOR	1	
RX3001	D1H410320002	RESISTOR-RESISTOR	1	
RX3002	D1H447220001	RESISTOR-RESISTOR	1	
RX3006	D1H422020001	RESISTOR-RESISTOR	1	
RX3006		RESISTOR-RESISTOR	1	
	D1H81034A024			
RX3008	D1H81034A024	RESISTOR-RESISTOR	1	
RX3013	D1H84724A024	RESISTOR-RESISTOR	1	
RX4001	D1H81034A024	RESISTOR-RESISTOR	1	
RX6001	D1H81034A024	RESISTOR-RESISTOR	1	
RX6002	D1H81034A024	RESISTOR-RESISTOR	1	
S5201	ESE11MV9T	SWITCH	1	
S5202	ESE11MV9T	SWITCH	1	
S6005	ESE11MV9T	SWITCH	1	
S6801	K0H1BA000432	SWITCH	1	
S6802	K0H1BA000432	SWITCH	1	
S6803	K0H1BA000432	SWITCH	1	
S6804	K0H1BA000432	SWITCH	1	
S6805	K0H1BA000432	SWITCH	1	
S6806	K0H1BA000432	SWITCH	1	
S6811	K0H1BA000432	SWITCH	1	
S6812	K0H1BA000432	SWITCH	1	
S6813	K0H1BA000432	SWITCH	1	
S6814	K0H1BA000432	SWITCH	1	
S6815	K0H1BA000432	SWITCH	1	
S6816	K0H1BA000432	SWITCH	1	
S6817	K0H1BA000432	SWITCH	1	
S6821	K0H1BA000432	SWITCH	1	
S6822	K0H1BA000432	SWITCH	1	
S6823	K0H1BA000432	SWITCH	1	
S6824	K0H1BA000432	SWITCH	1	
S6825	K0H1BA000432	SWITCH	1	
S6826	K0H1BA000432	SWITCH	1	
S6827	K0H1BA000432	SWITCH	1	

	110111271000702	J		
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S6828	K0H1BA000432	SWITCH	1	
S6829	K0H1BA000432	SWITCH	1	
T1101	G5DYA0000055	TRANSFORMER	1	
TH6001	ERTJ0EG103FA	THERMISTER	1	
X3001	H0J270500080	CRYSTAL OSCILLATOR	1	
X6001	H2D800400017	CRYSTAL OSCILLATOR	1	

# 20. Schematic Diagram for printing with A4

Ref No.			QR1	1411					QR1413				QR1602				QR1603			
MODE	1	2	3	4	5	6		Е	С	В		Е	С	В		Е	С	В		
PLAY	5.1	0.2	0.2	2.7	0	11.6		9.0	0	9.0		0	1.3	0		0	4.9	0		
STOP	5.1	0.2	0.1	2.7	0	11.5		9.0	0	9.0		0	1.3	0		0	4.9	0		
Ref No.		QR3201				QR3202				QR4001				QR4002				QR4004		
MODE	Е	С	В		Е	С	В		Е	С	В		Е	С	В		Е	С	В	
PLAY	4.9	-0.2	4.9		0	4.9	0.1		0	0	3.3		9.0	9.0	7.7		2.9	-0.1	2.8	
STOP	4.9	-0.1	4.9		0	4.9	0.1		0	0	3.3		9.0	9.0	7.7		2.6	2.5	0	
Ref No.		QR4005				QR4008														
MODE	Е	С	В		Е	С	В													
PLAY	2.9	-0.1	2.8		0	0	0.2													
STOP	2.6	2.4	0.5		0	0	0.2													
Ref No.			QR4	1009		-			QR4010				QR4011							i I
MODE	1	2	3	4	5	6		Е	С	В		Е	С	В						i I
PLAY	0	-1.3	0	0	-1.3	0		3.2	-0.1	3.1		0	0.1	3.1						i I
STOP	0	0.6	0	0	0.6	0		3.2	-0.1	3.1		0	0.1	3.1						
Ref No.		QR4014				QR4015				QR4016				QR4017				QR4018		
MODE \	E	С	В		E	С	В		E	С	В		E	С	В		E	С	В	
PLAY	0	-1.0	0		0	2.8	0		0	2.8	0		0	2.2	0		0	0	2.7	
STOP	0	-0.6	0		0	0	0		0	0	4.5		0	2.0	0		0	0	2.7	
Ref No.				1702							1703					QR5221				
MODE	1	2	3	4	5	6		1	2	3	4	5	6		Е	С	В			
PLAY	0	-1.3	0	0	-5.2	0		0	-1.6	0	0	-5.2	0		3.2	3.2	0.1			
STOP	0	0.7	0	0	0.7	0		0	0.7	0	0	0.7	0		3.2	-0.1	3.2			Щ.
Ref No.		QR6001				QR6002				QR6003										
MODE	Е	С	В		Е	С	В		Е	С	В									
PLAY	0	0.1	3.3		0	3.3	0		0	3.3	0									
STOP	0	0.1	3.3		0	3.3	0		0	3.3	0									

MACPA   1	Ref No.				IC3	3204															
STOP						_															
NOTE						_															
PAT   S		1.4	2.0	U	1.0	1.7	3.3														
SICE   D   D   D   D   S   S   S   S   S   D   D		1	2	3	4	5	6	7	8	9	10	11	12	13	14						
New York   Color   C														_							
MODE		0	0		3.3	3.3	3.3	0	0		3.3	0	0	3.3	3.3						
SIGN   S.A.   0   0   0   0   0   0   0   0   0		1	2		4	5		1	2		4	5		1							1
Note						_															
NODE		5.4	0	5.4	0	5.0		5.4			0	5.0									
STOP   0   32   28   32   18   0   18   18   0   0   35   0   25   24   28   50		1	2	3	4	5	6	7			10	11	12	13	14	15	16				
Note																					
NOTE   1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16		0	3.2	2.8	3.2	1.6	0	1.6			0	5.0	0	2.5	2.4	2.5	5.0				
Fig. 12   25   25   25   25   25   0   0   0   0   0   0   0   25   24   24   0   25   50		1	2	3	4	5	6	7		_	10	11	12	13	14	15	16				
No.		2.5						0													
MODE		2.5	2.5	2.5			0	0	0	0.1	0	2.5	2.4			2.5	5.0				
Fig. Page   Fig.		1	2	3			6	7	8		1	2	3	_	_	6	7	8	1		$\vdash$
Note   1													_				_				
MODE		4.2	4.2	4.2	0	4.2		4.2	8.3				4.2	1.9	4.0	0	8.3	3.9			
FIAT   0		1	2	3	1	5	6	7	Ω	۵	_		12	12	14	15	16	17	12	10	20
STOP   0   0   32   32   0   32   01   0   16   16   0   16   16   0   16   32   16   16   16   0																		_			
NODE   1	STOP		0		3.2				0			0		1.6			_	_	_		
FIAT   0		21	22	22			26	27	20		4	2	2		_	e	7	0			$\vdash \vdash$
STOP   O						_									_		_	_			$\vdash \vdash$
NODE   1   2   3   4   5   6   7   8   8	STOP				1.6	1.6												_			
FLAY	_	_	_	_																	igspace
STOP						_															$\vdash$
NODE																					
FLAY			_	_		-				_	_		40		4.4	45		4-	40	40	
STOP		_									_				_			-	_		
MODE														_			_	_			
PLAY										_	_		_								
STOP   0.6   0.6   0.6   0.6   0.0   0   0   0   0   0   0   32   33   31   9   0   0   0   0   0   0   0   0   0																	_	-			$\vdash$
MODE											_						_				
PLAY																					
STOP   0   3.3   0.2   2.9   3.3   3.3   3.3   0   3.3   3.3   3.3   1.7   1.5   0   0   0   3.3   0   3.3   0   0						_					_						_	_	_		
MODE																					
PIAY											_										
STOP														1				_	_		
MODE															_		_	_			
PLAY																					
STOP						_					_		_					-			
MODE						_												-			
PLAY																					
STOP													_								
MODE				0																	
PLAY						-				_											igspace
Ref No.																					$\vdash$
MODE																					
MODE	Rof No.			010	201						01	002						01	003		
PLAY   1.2   1.2   8.2   9.0   1.2   1.2   2.6   2.6   6.2   9.0   2.5   2.5   5.6   5.6   3.3   9.0   5.6   5.6		1	2			5	6		1	2	_		5	6		1	2			5	6
Ref No.         Q1004         Q1101         Q1201         Q1202           MODE         1         2         3         4         5         6         E         C         B         S         D         G         S         D         G           PLAY         3.7         3.7         9.0         9.0         3.7         3.7         0         10.6         0.2         1.1         1.2         3.3         3.2         3.2         0           STOP         3.7         3.7         9.0         9.0         3.7         3.7         0         11.0         0.2         1.1         1.2         3.3         3.2         3.2         0           Ref No.         Q1401         Q1403         Q1403         Q1403         Q1623           MODE         1         2         3         4         5         6         7         8         E         C         B           PLAY         3.7         3.7         9.9         11.0         3.7         11.8         11.8         11.8         8.0         8.9         8.9         8.9         9.3         5.6         8.9           STOP         4.0	PLAY	1.2	1.2	8.2	9.0	1.2	1.2		2.6	2.6	6.2	9.0	2.5	2.5		5.6	5.6	3.3	9.0	5.6	5.6
MODE         1         2         3         4         5         6         E         C         B         S         D         G         S         D         G           PLAY         3.7         3.7         9.0         9.0         3.7         3.7         0         10.6         0.2         1.1         1.2         3.3         3.2         3.2         0           STOP         3.7         3.7         9.0         9.0         3.7         3.7         0         11.0         0.2         1.1         1.2         3.3         3.2         3.2         0           Ref No.         Q1401         Q1403         Q1403         Q1623           MODE         1         2         3         4         5         6         7         8         E         C         B         PLAY         3.7         3.7         9.9         11.0         3.7         3.7         11.8         11.8         11.8         8.0         8.9         8.9         8.9         9.3         5.6         8.9           STOP         4.0         4.0         8.9         11.8         11.8         11.8         11.8 <t< th=""><th></th><th>1.2</th><th>1.2</th><th></th><th></th><th>1.2</th><th>1.2</th><th></th><th>2.5</th><th></th><th>6.2</th><th>9.0</th><th>2.5</th><th></th><th></th><th>5.5</th><th>5.5</th><th></th><th>9.0</th><th>5.5</th><th>5.5</th></t<>		1.2	1.2			1.2	1.2		2.5		6.2	9.0	2.5			5.5	5.5		9.0	5.5	5.5
PLAY         3.7         3.7         9.0         9.0         3.7         3.7         0         10.6         0.2         1.1         1.2         3.3         3.2         3.2         0           STOP         3.7         3.7         9.0         9.0         3.7         3.7         0         11.0         0.2         1.1         1.2         3.3         3.2         3.2         0           Ref No.         Q1401         Q1403         Q1403         Q1623           MODE         1         2         3         4         5         6         7         8         E         C         B           PLAY         3.7         3.7         9.9         11.0         3.7         3.7         11.8         11.8         11.8         8.0         8.9         8.9         8.9         9.3         5.6         8.9           STOP         4.0         4.0         8.9         10.8         4.0         4.0         11.8         11.8         11.8         8.0         8.9         8.9         8.9         9.3         5.3         8.9           STOP         4.0         4.0         8.9         4.0         4.0		1	2			5	6		Е		В		S	_	G		S		G		╁
Ref No.         Q1401         Q1403         Q1623           MODE         1         2         3         4         5         6         1         2         3         4         5         6         7         8         E         C         B           PLAY         3.7         3.7         9.9         11.0         3.7         3.7         11.8         11.8         18.8         8.9         8.9         8.9         9.3         5.6         8.9           STOP         4.0         4.0         8.9         10.8         4.0         4.0         11.8         11.8         11.8         8.0         8.9         8.9         8.9         9.3         5.6         8.9           STOP         4.0         4.0         8.9         11.8         11.8         11.8         8.0         8.9         8.9         8.9         9.3         5.6         8.9           STOP         4.0         4.0         4.0         11.8         11.8         11.8         8.0         8.9         8.9         8.9         8.9         9.3         5.5         8.9           Ref No.         Q3201         Q3202         Q3203         Q3204         Q4001         Q4001	PLAY	3.7	3.7	9.0	9.0	3.7	3.7		0	10.6	0.2		1.1	1.2	3.3		3.2	3.2	0		
MODE         1         2         3         4         5         6         1         2         3         4         5         6         7         8         E         C         B           PLAY         3.7         3.7         9.9         11.0         3.7         3.7         11.8         11.8         11.8         8.0         8.9         8.9         8.9         8.9         9.3         5.6         8.9           STOP         4.0         4.0         8.9         11.8         11.8         11.8         8.0         8.9         8.9         8.9         8.9         9.3         5.6         8.9           STOP         4.0         4.0         8.9         11.8         11.8         11.8         8.0         8.9         8.9         8.9         9.3         5.3         8.9           Ref No.         Q32021         Q3202         Q3203         Q3204         Q4001         Q4001         Q4001         Q4001         Q4001         Q4001         Q4001         Q4001         Q4002         Q4001         Q4002         Q		3.7	3.7			3.7	3.7		0	11.0	0.2	01		1.2	3.3		3.2	3.2			igsquare
PLAY         3.7         3.7         9.9         11.0         3.7         3.7         11.8         11.8         11.8         11.8         8.9         8		1	2			5	6		1	2	3			6	7	8		E		В	$\vdash$
Ref No.         Q3201         Q3202         Q3203         Q3204         Q4001           MODE         E         C         B         E         C         B         E         C         B           PLAY         1.6         0         1.0         0         0.6         -0.1         1.3         4.9         1.4         1.6         0         1.0         8.3         9.0         9.0           STOP         1.6         0         1.0         0         0.9         0.4         1.0         4.9         1.4         1.6         0         1.0         8.3         9.0         9.0           Ref No.         Q4002         Q5201         Q5202         Q5211         Q5215         Q5215           MODE         E         C         B         E         C         B         E         C         B           PLAY         0         3.1         0         0.4         3.8         1.0         0         5.0         0         4.4         2.2         3.8         5.0         0.1         5.0           STOP         0         3.1         0         0         5.0         0         5.0         0         5.0         0																					
MODE         E         C         B         E         C         B         E         C         B         E         C         B           PLAY         1.6         0         1.0         0         0.6         -0.1         1.3         4.9         1.4         1.6         0         1.0         8.3         9.0         9.0           STOP         1.6         0         1.0         0         0.9         0.4         1.0         4.9         1.4         1.6         0         1.0         8.3         9.0         9.0           Ref No.         Q4002         Q5201         Q5202         Q5211         Q5215		4.0		8.9	10.8	4.0			11.8	11.8		8.0	8.9	8.9		8.9		9.3		8.9	igsquare
PLAY         1.6         0         1.0         0         0.6         -0.1         1.3         4.9         1.4         1.6         0         1.0         8.3         9.0         9.0           STOP         1.6         0         1.0         0         0.9         0.4         1.0         4.9         1.4         1.6         0         1.0         8.3         9.0         9.0           Ref No.         Q4002         Q5201         Q5202         Q5211         Q5215           MODE         E         C         B         E         C         B         E         C         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B         E         C         B         B <t< th=""><th></th><th>F</th><th></th><th>R</th><th></th><th>F</th><th></th><th>R</th><th></th><th>F</th><th></th><th>R</th><th></th><th>F</th><th></th><th>B</th><th></th><th>F</th><th></th><th>B</th><th><math>\vdash</math></th></t<>		F		R		F		R		F		R		F		B		F		B	$\vdash$
Ref No.         Q4002         Q5201         Q5202         Q5211         Q5215           MODE         E         C         B         E         C         B         E         C         B           PLAY         0         3.1         0         0.4         3.8         1.0         0         5.0         0         4.4         2.2         3.8         5.0         0.1         5.0           STOP         0         3.1         0         0         5.0         0         5.0         0.7         5.0         0         5.0         0         5.0         0         5.0         0         5.0         0         5.0         0         5.0         0         5.0         0         5.0         0         5.0         0         5.0         0         5.0         0         0         5.0         0         0         5.0         0         0         5.0         0         0         5.0         0         0         5.0         0         0         5.0         0         0         5.0         0         0         5.0         0         0         5.0         0         0         5.0         0         0         0         0																					
MODE         E         C         B         E         C         B         E         C         B           PLAY         0         3.1         0         0.4         3.8         1.0         0         5.0         0         4.4         2.2         3.8         5.0         0.1         5.0           STOP         0         3.1         0         0         5.0         0         5.0         0.7         5.0         5.0         0         5.0           Ref No.         QR1007         QR1008         QR1202         QR1402         QR1403           MODE         E         C         B         E         C         B         E         C         B		1.6		1.0		0		0.4		1.0		1.4		1.6		1.0		8.3		9.0	
PLAY         0         3.1         0         0.4         3.8         1.0         0         5.0         0         4.4         2.2         3.8         5.0         0.1         5.0           STOP         0         3.1         0         0         5.0         0         5.0         0.7         5.0         5.0         0         5.0           Ref No.         QR1007         QR1008         QR1202         QR1402         QR1403           MODE         E         C         B         E         C         B         E         C         B	_	F		R		F		R		F	_	R		F		R		F		R	<del>├</del>
STOP         0         3.1         0         0         5.0         0         5.0         0.7         5.0         5.0         0         5.0           Ref No.         QR1007         QR1008         QR1202         QR1402         QR1403           MODE         E         C         B         E         C         B         E         C         B																					┢
MODE E C B E C B E C B			3.1	0		0	5.0	0		0				5.0		5.0		5.0			
	_	_		ь		_		ь		_	_			_	_	D	-				$\vdash \vdash \vdash$
<u> </u>																		-			$\vdash$
STOP 0 2.9 0 0 2.9 0.4 0 0 3.3 0 0 2.7 0 0 3.3																					

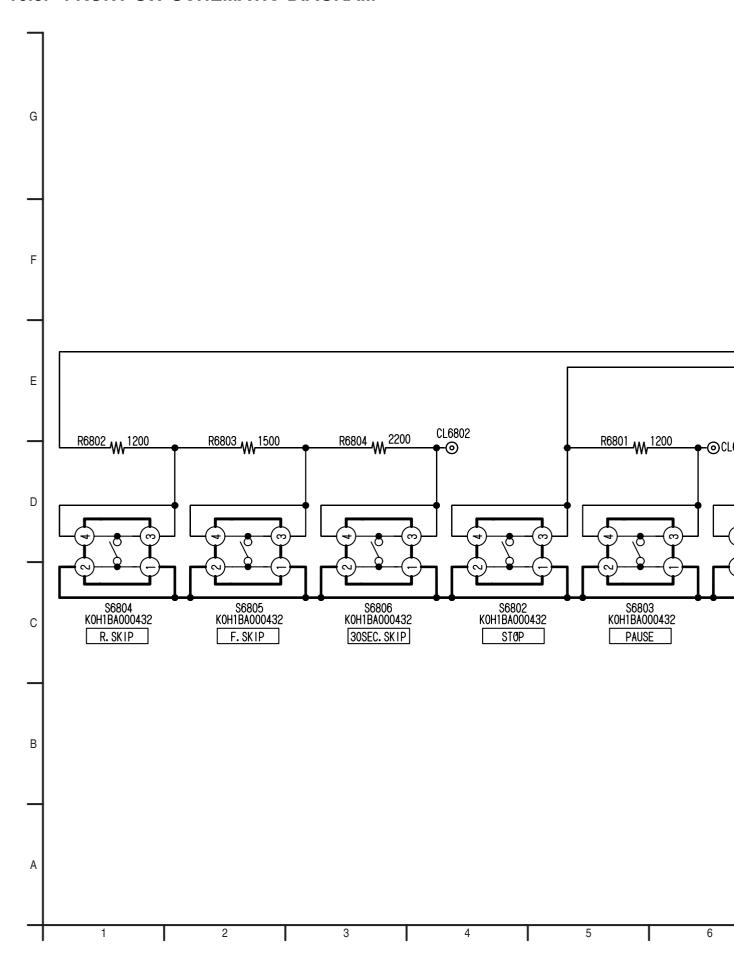
Ref No.										IC3	004									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY STOP	0	0	3.2	0	0	0	0	3.2	0	0	0	0	0	0	0	0	3.2	1.9 3.2	1.6 3.2	0.5
Ref No.											004									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY STOP	0	1.1	1.1 0.2	0.9	0.8	0.8	1.1 0.2	1.4 0.2	1.4 0.2	1.2 0.2	1.3 0.2	1.2 0.2	1.2 0.2	0	3.2	1.1	1.1 0.8	1.2	1.3	1.3 0.8
Ref No.	Ů		0.2	0.2	0.2	0.2	0.2	0.2	0.2		004	0.2	0.2	, i	0.2		0.0		1.0	0.0
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY STOP	1.3 0.9	1.2 0.5	0.9 1.0	0	1.1	0.8	1.2 1.5	1.7 1.8	1.6 0.8	1.1	1.1	0	3.2	0.5	3.2	0.8 1.4	0.9 1.3	1.3	1.7	1.3
Ref No.											004									
MODE PLAY	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	1.9 2.0	1.4	1.4	1.8 2.1	0	3.2	3.2	0	3.2	0	0	3.0	3.0	2.6 3.2	2.9 3.2	3.2	3.2	2.8	0	3.2
Ref No.				•							004									
MODE PLAY	81 0.1	82 0	83 1.1	84 3.1	85 1.9	86 3.2	87 3.2	88 3.2	89 3.2	90	91 1.6	92 0	93	94 3.2	95 3.2	96 3.2	97 3.2	98 0	99 3.2	100 3.2
STOP	3.2	0	1.1	3.1	3.2	0	0	0	3.2	1.6	1.6	0	3.2	3.2	3.2	3.2	3.2	0	3.2	3.2
Ref No.										IC3	004									
MODE PLAY	101 3.2	102 3.2	103 0.9	104 0	105 2.2	106 1.7	107 0	108 0	109	110 3.2	111 0.3	112 0.3	113 1.8	114 1.8	115 1.6	116 1.6	117 1.6	118 1.6	119 3.2	120 1.8
STOP	3.2	3.2	0.9	0	2.2	1.7	0	0	1.7	3.2	0.3	0.3	0	1.8	1.6	1.6	1.6	1.6	3.2	3.2
Ref No.										IC3	004									
MODE PLAY	121	122 0	123	124	125	126 0	127	128	129	130	131	132	133	134	135	136 2.5	137	138	139	140
STOP	1.3	0	0.2	1.0	0.2	0	0.3	1.6 1.6	2.6	2.7	2.7	2.6	2.7	2.6	2.4	2.5	2.4	2.5	1.8	1.6 1.6
Ref No.						ī.				IC3	004					ī.				
MODE PLAY	141 1.5	142 1.6	143 0	144 1.6	145 1.4	146 3.2	147 0.8	148 0.8	149 0.5	150 3.2	151 2.1	152 1.0	153 1.0	154 2.1	155 0	156 0.5	157 0.6	158 3.2	159 0	160 3.2
STOP	1.6	1.6	0	1.6	1.6	3.2	0.8	0.8	0.5	3.2	2.1	1.0	1.0	2.1	0	0.5	0.8	3.2	0	3.2
Ref No.						1				IC3	004									
MODE PLAY	161	162	163	164	165	166	167	168	169	170	171	172	173	174 0	175	176	177	178	179	180
STOP	0.5	1.5 1.5	1.5 0	0	1.1	1.6 1.4	1.6 1.6	1.6 1.6	0.8	0	0	0.8	1.3	0	3.2	0	0	0	0	0
Ref No.										IC3	004									
MODE PLAY	181 0	182 0	183 0	184 3.2	185 0	186 0	187 3.2	188 3.2	189 0	190 0	191 0	192 0	193 0	194 0	195 0	196 0	197 3.2	198 2.0	199 2.4	200
STOP	0	0	0	3.2	0	0	3.2	3.2	0	0	0	0	0	0	0	0	3.2	2.0	2.4	2.8
Ref No.											004									
MODE PLAY	201	202	203	204	205 0	206	207	208	209	210 2.4	211	212	213	214	215 0	216 2.4	217	218 1.0	219 1.9	220 1.9
STOP	2.5 3.0	2.6	2.5 3.2	3.2	0	2.6 3.0	2.3	2.9	2.3 3.1	2.4	2.3 3.0	3.2	2.6	3.2	0	2.7	2.4	1.1	2.6	2.6
Ref No.	,									IC3	004									
MODE PLAY	221 3.1	222 0	223	3.2	225	226 0	3.0	228 3.0	229	230	231	232	233	234 1.1	235 1.6	236	237 0	238	239 3.2	240 1.5
STOP	3.1	0	1.5 1.5	3.2	1.5 1.5	0	3.1	3.1	3.0	0	1.5 2.0	0	0	1.1	1.5	0	0	0	3.2	1.4
Ref No.									004										IC3007	
MODE \ PLAY	241 0.2	242 1.7	0.3	244 1.7	245 0.4	246 1.3	247 1.7	248 0	249 3.2	250 0	251 0	252 0	253 0	254 0	255 0	256 0		0	3.1	3.2
STOP	0.2	1.5	0.3	1.5	0.4	1.2	1.3	0	3.2	0	0	0	0	0	0	0		0	3.1	3.1
Ref No.											009									
MODE \ PLAY	3.2	2.5	3.2	2.4	5 2.4	6	7 2.4	8 2.3	9 3.2	10 2.3	11 2.5	12 0	13 2.4	14 3.2	15 2.0	16 3.1	17 3.0	18 3.0	19 2.8	20 1.6
STOP	3.2	2.7	3.2	3.0	3.0	0	2.9	3.1	3.2	3.0	2.9	0	2.8	3.2	2.6	3.1	3.1	3.1	3.0	1.9
Ref No.	0.4				0.5	00					009			0.1	0.5	00				40
MODE \ PLAY	21 1.6	22 0	0.3	24 0.4	25 0.4	26 1.8	27 3.2	28 0	29 1.3	30 1.7	31 1.7	32 1.5	33 0	34 0	35 0	36 0	37 3.2	38 1.5	39 1.9	40 0
STOP	1.5	0	0.0	0.1	0.1	1.3	3.2	0	1.5	1.5	1.5	1.4	0	0	0	0	3.2	1.5	2.6	0
Ref No.	44	40	40	4.4	AE	46		009	40	F.C.	E4	E0	E0	E 4						$\square$
MODE \ PLAY	41 0	42 2.4	43 3.2	2.4	45 2.5	46 0	47 2.5	48 2.7	49 3.2	50 2.7	51 2.8	52 0	53 2.3	54 0				<del>                                     </del>		$\vdash \vdash \vdash$
STOP	0	2.8	3.2	3.0	2.9	0	2.9	3.0	3.2	2.9	2.8	0	2.9	0						
Ref No. MODE	1	2	3	4	5	6	7	8	9	1C3	201 11	12	13	14	15	16	17	18	19	20
PLAY	4.9	0	0	0	0	0.2	0	0.5	2.2	0	1.6	0	2.1	3.3	2.1	4.9	2.2	2.2	0	2.2
STOP	4.9	0	0	0	0	0.1	0	0.5	2.1	0	1.5	0	2.1	3.3	2.1	4.9	2.2	2.2	0	2.2
Ref No. MODE	21	22	23	24	25	1C3 26	201 27	28	29	30	31	32						<del>                                     </del>		$\vdash \vdash \vdash$
PLAY	2.2	0	1.6	1.6	0	4.5	0	0	4.4	0	0	-0.2								
STOP	2.2	0	1.3	1.3	0	4.4	0	0	4.4	4.4	0	-0.3								
Ref No. MODE	1	2	3	4	5	6	7	8	9	103	202 11	12	13	14	15	16	17	18	19	20
PLAY	0	1.6	1.6	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STOP	0	1.6	1.6	0	0	3.3	0	0	0	0	0	0	2.3	0	0	0	0	0	0	0
Ref No. MODE	21	22	202 23	24																$\vdash \vdash$
PLAY	3.3	2.9	3.3	3.3																
STOP	3.3	2.9	3.2	3.3				100	203											口
Ref No. MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		<del>                                     </del>		$\vdash \vdash \vdash$
PLAY	-0.2	0.2	-0.2	-0.2	0.2	0	0	0	0.1	0	1.6	0.5	0.5	0	1.6	4.9				
STOP	-0.2	0.1	-0.2	0.1	0.1	0	0	0	0.1	0	1.6	0.4	0.4	0	1.6	4.9				

Ref No.										IC1	001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0.3	9.0	9.0	8.2	0	0	6.1	9.0	3.3	0	0	0.1	2.3	1.8	1.1	1.3	1.0	1.0	2.1	1.1
STOP	8.0	9.0	9.0	8.2	0	0	6.2	9.0	3.4	0	0	0.1	2.3	1.8	1.1	1.3	1.0	1.0	2.1	1.1
Ref No.	04	00	00	0.4	05	00	07	00	00		001	00	00	0.4	٥٥	00	07	20	20	40
MODE \	21 1.5	1.0	1.0	24 1.4	25 1.1	26 1.9	27 1.0	28 1.7	29 0	30 0	31 0	32 9.0	33 2.5	34 1.0	35 1.0	36 1.3	37 1.1	38 1.8	39 0.5	40 0
STOP	1.5	1.0	1.0	1.4	1.1	1.9	1.0	1.7	0	0	0	9.0	2.5	1.0	1.0	1.3	1.1	1.8	0.3	0
Ref No.	1.0		1.0		001		1.0				- ŭ	0.0	2.0			1.0			<u> </u>	Ť
MODE	41	42	43	44	45	46	47	48												
PLAY	0.5	1.0	0	0	3.3	3.3	3.3	0												
STOP	0.2	1.0	0	0	3.3	3.3	3.3	0		101001						104404				
Ref No. MODE	1	2	3	003	5	6		1	2	IC1004	4	5		1	2	IC1101	4	5		
PLAY	3.3	0	1.3	5.0	0	5.4		5.4	0	3 5.4	0	5.0		5.4	0	3.3	0	5.0	$\vdash$	
STOP	3.3	0	1.3	5.0	0	5.4		5.4	0	5.4	0	5.0		5.4	0	3.3	0.6	5.0		
Ref No.			IC1251		_										-					
MODE	1	2	3	4	5															
PLAY	5.4	0	0	0	0															
STOP	5.4	0	0	0	0								10.4	400					<b> </b>	<b>  </b>
Ref No. MODE	1	2	3	4	401 5	6	7	8		1	2	3	1C1	402 5	6	7	8		$\vdash$	
PLAY	8.9	0	0	1.2	11.7	0	8.0	11.8		8.9	0	0	1.2	11.7	0	8.0	11.8		-	
STOP	8.7	0	0	1.2	11.7	0	8.0	11.8		8.9	0	0	1.2	11.7	0	8.0	11.8			
Ref No.			IC1411					IC1	412											
MODE	1	2	3	4	5		1	2	3	4										
PLAY	11.3	0	3.3	9.9	11.0		3.3	8.9	-0.1	0										
STOP Ref No.	11.1	0	3.3	8.9	10.8		3.3	9.0	0 601	0										
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			$\vdash$	
PLAY	1.3	0.9	5.0	9.3	4.5	0.3	1.0	1.0	0.5	0.9	4.5	0.3	5.6	5.6	0	8.9				
STOP	1.3	0.9	5.0	9.3	4.5	0.2	1.0	1.0	0.7	0.7	4.5	0.2	5.4	5.3	0	8.9				
Ref No.											601									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY STOP	1.6 1.6	1.6 1.6	1.5	1.6 1.6	1.6 1.6	1.6 1.6	0	5.4 5.4	3.2 0	0	3.1 2.7	2.4	2.7	2.8	2.4	2.4	2.4	2.4	0	0
Ref No.	1.0	1.0	1.6		601	1.0	U	3.4	U	U	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	U	0
MODE	21	22	23	24	25	26	27	28												
PLAY	5.4	5.4	1.6	1.6	1.6	1.6	3.2	2.8												
STOP	5.4	5.4	1.6	1.6	1.6	1.6	0	2.8												
Ref No.			-				_				651	4-								- 0.5
MODE \ PLAY	0	2	3 0	4 0	5 0	6	7 3.5	8	9	10 2.9	11 2.9	12 0	13 0	14 2.9	15 0.8	16	17 0.6	18	19 2.4	20 0
STOP	0	0.1	0.1	0.1	0	0.1	0.1	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0.6	0	5.0	5.0
Ref No.	Ť	V. 1	V. 1		651	V. 1	V. 1		0.0	0.0	0.0	5.0	0.0	0.0	0.0	Ť	Ť	Ť	Ü.Ü	5.0
MODE	21	22	23	24	25	26	27	28												
PLAY	1.6	1.4	3.2	2.5	5.0	0	5.4	5.4												
STOP	1.6	1.6	0	5.0	5.0	0	5.4	5.4			004									Щ
Ref No.	4	2	2	1 4	F	6	7	0	0		001	10	10	14	15	10	17	10	10	20
MODE \ PLAY	1.2	0	3.2	4 0	5 3.2	6	7	8	9	10 0	3.2	12 3.1	13 3.2	14 3.2	15 0.3	16 0.9	17 0.9	18	19 1.7	20 1.3
STOP	0.5	1.1	0.3	1.5	1.8	0.9	1.3	1.2	0.8	0	3.2	3.1	3.2	3.2	0.3	1.4	1.3	1.1	1.7	1.2
Ref No.	0					0					001				0					<del>,</del>
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	1.9	1.3	1.4	1.7	1.9	1.6	0	1.5	1.0	0.9	8.0	0.9	1.1	1.4	1.4	1.3	3.2	1.3	1.1	1.1
STOP	2.1	1.3	1.5	2.1	0.5	1.4	0	2.5	1.1	0.5	0.5	-1.2	0.9	-0.5	1.5	8.0	3.2	-0.1	0.9	1.3
Ref No. MODE	41	42	43	1C3	001 45	46	47	48		1	2	3	1C3	002 5	6	7	8		<del>                                     </del>	<b>  </b>
PLAY	1.1	1.1	1.2	1.3	1.3	0	3.2	1.4		0	0	0	0	3.2	3.2	0	3.2		$\vdash$	-
STOP	1.1	0.8	1.1	1.1	0.9	0	3.2	0.9		0	0	0	0	3.2	3.2	0	3.2		$\Box$	
																<u> </u>				<u> </u>

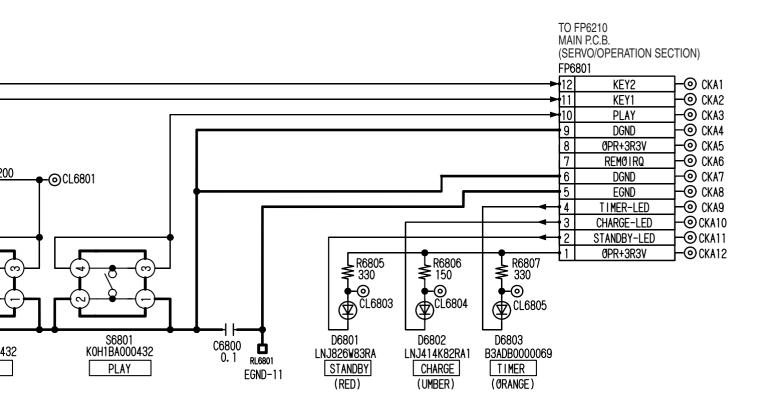
3 4 2.1 2.1 2.1 2.1 2.1 2.1 2.3 24 0 2.5 0 2.5 43 44 1.8 5.1 1.8 5.1 1.8 5.1 2.7 2.1 2.7 1G8302 3 4 3.3 0 3.3 0 1C 1C	5 6 2.1 5.1 2.1 5.1 2.5 26 7.3 2.6 7.3 2.6 45 46 0 3.7 0 3.7	7 8 2.1 0 2.1 0 2.7 28 2.5 4.0 2.5 4.0 47 48 4.9 4.9 4.9 4.9	9 0 0 3.3 3.3 3.3 3.3	10 0 0 IC83 30 2.2 2.2 IC83 50 1.8	31 3.3 3.3	12 3.5 3.5 3.0 3.0 3.0 52 3.1	13 3.4 3.4 3.3 0.9 0.9 53 2.4	14 2.1 2.1 34 0.5 0.5 54 2.4	15 2.1 2.1 35 3.3 3.3 55 2.7	16 2.1 2.1 36 1.7 1.7 56 4.3	17 0 0 37 0 0 57 3.0	18 0.7 0.7 38 0 0	19 2.6 2.6 39 4.9 4.9 59	20 2.5 2.5 40 3.1 3.1
2.1 2.1  23 24  0 2.5  0 2.5  0 2.5  43 44  1.8 5.1  1.8 5.1  28301  63 64  2.1 2.7  1C8302  3 4  3.3 0  IC	2.1 5.1 25 26 7.3 2.6 7.3 2.6 45 46 0 3.7	2.1 0 27 28 2.5 4.0 2.5 4.0 47 48 4.9 4.9	0 29 3.3 3.3 3.3 49 3.1	0 IC83 30 2.2 2.2 IC83 50 1.8	3.4 301 31 3.3 3.3 301 51 1.7	3.5 32 3.0 3.0 52 3.1	3.4 33 0.9 0.9 53 2.4	2.1 34 0.5 0.5	2.1 35 3.3 3.3 55	2.1 36 1.7 1.7	0 37 0 0	0.7 38 0 0	2.6 39 4.9 4.9	2.5 40 3.1 3.1
23 24 0 2.5 0 2.5 43 44 1.8 5.1 1.8 5.1 28301 63 64 2.1 2.7 IC8302 3 4 3.3 0 IC	25   26 7.3   2.6 7.3   2.6 45   46 0   3.7	27 28 2.5 4.0 2.5 4.0 47 48 4.9 4.9	3.3 3.3 49 3.1	30 2.2 2.2 IC83 50 1.8	31 3.3 3.3 301 51 1.7	32 3.0 3.0 52 3.1	33 0.9 0.9 53 2.4	34 0.5 0.5	35 3.3 3.3	36 1.7 1.7	0 0 57	0 0 58	39 4.9 4.9 59	40 3.1 3.1
0 2.5 0 2.5 1.8 5.1 1.8 5.1 28301 63 64 2.1 2.7 1C8302 3 4 3.3 0 1C	7.3 2.6 7.3 2.6 45 46 0 3.7	2.5 4.0 2.5 4.0 47 48 4.9 4.9	3.3 3.3 49 3.1	2.2 2.2 IC83 50 1.8	3.3 3.3 301 51 1.7	3.0 3.0 52 3.1	0.9 0.9 53 2.4	0.5 0.5 54	3.3 3.3 55	1.7 1.7 56	0 0 57	0 0 58	4.9 4.9 59	3.1 3.1
0 2.5  43 44 1.8 5.1 1.8 5.1 28301 63 64 2.1 2.7 2.1 2.7 IC8302 3 4 3.3 0 IC8302 IC8302	7.3 2.6 45 46 0 3.7	2.5 4.0 47 48 4.9 4.9	3.3 49 3.1	2.2 IC83 50 1.8	3.3 301 51 1.7	3.0 52 3.1	0.9 53 2.4	0.5 54	3.3 55	1.7 56	0 57	0 58	4.9 59	3.1
1.8 5.1 1.8 5.1 1.8 5.1 28301 63 64 2.1 2.7 2.1 2.7 1C8302 3 4 3.3 0 1C	0 3.7	47 48 4.9 4.9	49 3.1	50 1.8	51 1.7	3.1	2.4		55					60
1.8 5.1 1.8 5.1 1.8 5.1 28301 63 64 2.1 2.7 2.1 2.7 1C8302 3 4 3.3 0 1C	0 3.7	4.9 4.9	3.1	1.8	1.7	3.1	2.4							60
1.8   5.1			_					2.4						4.8
C8301  63 64  2.1 2.7  2.1 2.7  IC8302  3 4  3.3 0  3.3 0  IC					1./	3.1	2.4	2.4	2.7	4.3	3.0	5.1	0	4.8
2.1 2.7 2.1 2.7 IC8302 3 4 3.3 0 3.3 0 IC														
2.1 2.7 IC8302 3 4 3.3 0 3.3 0 IC				$\longmapsto$	$\longrightarrow$		<b></b>	$\longrightarrow$				$\vdash$		
3 4 3.3 0 3.3 0 IC	•							-					-	
3.3 0 3.3 0 IC		•					IC8	501						
3.3 0	5	1 2 -8.2 -8.2	-8.2	-0.1	-8.2	-8.2	-15.6	8	9 -3.2	10 -3.4	-24.0	-15.6	13 -15.6	14
IC	3.2	-8.2 -8.2	-8.2	-0.1	-8.2	-8.2	-15.6	-23.0 -22.7	-3.2 -3.1	-3.4	-23.4	-15.6	-15.6	-8.3 -8.8
3 4	8502	-					IC86	601						
1.0	5 6	7 8 4.9 4.9		1	2.5	3	4	5	6	7	8	$\vdash$		
1.9 -	0.1 4.9 0.1 4.9	4.9 4.9 4.9 4.9		1.7 1.4	2.5	0.3	0.7 0.6	1.6 1.6	3.1	3.0	0.8			
IC	8603					IC8								
3 4	5 6	7 8	igspace	1	2	3	4	5	6			igsquare		
1.7 4.9 1.7 4.9	2.2 4.9 2.0 4.9	1.5 0.1 1.2 0	$\vdash \vdash$	2.5 2.5	0	0	3.0	0	3.7 3.7				$\dashv$	
IC8702	2.0 4.0						0.0		0.7					
3 4	5 6	1	2	3	4	5	6	7	8					
												<del>                                     </del>	$\dashv$	
0 0.0	0 0.7			1.0	0.1	2.0	1.0	2.0	7.0					
3 4	5 6	7 8	9	10	11	12	13	14	15	16				
												+	$\rightarrow$	
0.2   2.1			2.0	0		0			1					
	Q8002		_	Q8003			_	Q8004	_		_	Q8005		
1.8	0.9 3.0	1.5	1.5	0	1.8		0.9	3.0	1.5		0.3	3.0	0.9	
		7			Q8301				•					
9.1 0	9.1 9.1	9.1 9.1		1.4	5.1	2.0		3.1	2.8	5.1	2.6	3.2	5.1	
			_		-		_	Q8606	2		_		_	
3.2	5.1 2.4	5.1	13.5	13.5	0		1.8	0	1.7		1.8	0.1	1.7	
	Q8614		_								-			
_													-	
1.7	0.5 0	1.2	1.2	0	1.2		0.1	-1.0	2.5	4.9	5.7	2.5		
Q8802		_	QR8001	$\Box$	$\Box$		QR8304			_			$\Box$	
					$\longrightarrow$				-				$\dashv$	
2.5 4.9	5.7 2.5	0	0	3.3		4.9	4.9	2.1		3.3	3.3	2.5		
	QR8602			QR8603								QR8605		
						-								
2.5	0 0	3.3	2.5	3.0	0		0	0	3.3		-24.0	-24.0	3.0	
	QR8607		$\vdash$											
			$\vdash$	$\vdash \vdash \vdash$	$\dashv$	-		$\dashv$				<del>                                     </del>	$\dashv$	
	0.1 0.1	2.3												
111000	IC8702   3	1C8702	1C8702	C8702	1C8702	IC8702	IC8702	IC8702	IC8702	IC8702			IC8702	C8702

Ref No.										IC8	001									
MODE PLAY	1 2.5	2 2.5	3	4 0.1	5 0.1	6	7	8 4.9												
STOP	2.5	2.5	2.5	0.1	0.1	0.1	0.1	4.9												
Ref No.											002									
MODE \ PLAY	1 0.1	2 0.1	3 2.9	2.9	5 3.0	6 1.8	7 0.1	8 0.1	9 0.1	10 1.8	11 2.9	12 0.1	13 3.0	14 3.0	15 -	16 3.0	17 1.3	18 1.3	19 -	20
STOP	0.1	0.1	2.9	2.9	3.0	1.8	0.1	0.1	0.1	1.8	2.9	0.1	3.0	3.0	-	3.0	1.3	1.3	-	-
Ref No.											002									
MODE \ PLAY	21 0.4	22 0.9	23 0.4	24	25	26	27 0.8	28 0.1	29 0.1	30 0.1	31 0.1	32 0.1	33 0.1	34 1.0	35	36	37	38 0.4	39 0.9	40 0.4
STOP	0.4	0.9	0.4	-	-	-	0.9	0	0.1	0	0.1	0.1	0	0.9	-	-	-	0.4	0.9	0.4
Ref No.	- 44	40	40	- 44	45	40	47	40	40		002		50	<b>5</b> 4		50		50	50	00
MODE \ PLAY	41 -	42 -	1.3	1.4	45 3.0	46 -	47 3.0	48 2.9	49 0.1	50 2.9	51 1.8	52 3.0	53 2.4	54 0.1	55 1.8	56 0.1	57 0.1	58 0.1	59 0.1	60 0.1
STOP	-	-	1.3	1.3	3.0	-	3.0	2.9	0.1	2.9	1.8	3.0	2.3	0	1.8	0.1	0.1	0.1	0.1	0.1
Ref No.	61	62	63	64	GE	66	67	60	69	IC8 70	002	72	73	74	75	76	77	78	79	80
MODE \ PLAY	61 2.9	0.1	0.1	64 0.1	65 0.1	66 2.9	0.1	68 0.1	0.1	0.1	71 3.0	0.1	0.1	74 0.1	0.1	0.1	2.9	0.1	-	2.9
STOP	2.9	0.1	0.1	0.1	0.1	2.9	0.1	0.1	0.1	0.1	3.0	0	0	0	0	0	2.9	0.1	-	2.9
Ref No. MODE	81	82	83	84	85	86	87	88	89	1C8 90	002 91	92	93	94	95	96	97	98	99	100
PLAY	3.0	1.3	3.0	1.3	-	-	-	0.4	-	0.4	0.8	0.3	-	0.1	-	0.4	0.6	3.0	3.0	2.9
STOP	3.0	1.3	3.0	1.3	-	-	-	0.4	-	0.4	0.5	0.3	-	0.1	-	0	0.1	3.0	3.0	1.6
Ref No. MODE	101	102	103	104	105	106	107	108	109	110	002 111	112	113	114	115	116	117	118	119	120
PLAY	1.5	0.1	1.2	0.1	2.9	2.9	0.1	1.8	0.8	-	0.1	0.3	2.9	2.7	0.2	1.5	3.0	-	2.5	2.9
STOP	1.5	0	1.2	0.1	2.9	2.9	0.1	1.8	8.0	-	0.1	0.3	2.9	2.8	0.2	1.5	3.0	-	2.5	2.9
Ref No. MODE	121	122	123	124	125	126	127	128	129	130	002 131	132	133	134	135	136	137	138	139	140
PLAY	0.1	0.1	0.1	1.4	2.9	0.4	0.1	0.1	0.5	0.1	2.7	0.3	0.1	1.5	0.1	0.1	0.1	0.1	0.1	2.9
STOP	0.1	0.1	0.1	1.4	2.9	0.3	0.1	0.1	0.4	0.1	2.6 002	0.3	0.1	1.5	0.1	0.1	0.1	0.1	0.1	2.9
Ref No. MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
PLAY	1.3	2.7	1.6	2.9	0.9	0.1	8.0	0.9	0.7	0.7	0.7	0.1	0.1	0.1	0.8	0.4	0.6	0.6	0.6	2.9
STOP	1.3	2.6	1.4	2.9	0.1	0.1	0	0.1	0.3	0.6	0.6 002	0.1	0	0.1	0.1	0.1	0.1	0.2	0.5	2.9
Ref No. MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
PLAY	0.1	0.6	0.1	0.1	1.1	0.7	0.1	0.5	0.6	0.6	0.6	0.1	0.1	0.1	1.2	0.3	0.1	-	0.1	0.1
STOP Ref No.	0.1	0.5	0.1	0.1	0.1	0.5	0.1	0.4	0.5	0.7	0.6 002	0.1	0.1	0.1	1.4	0.3	0.1	-	0.1	0.1
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
PLAY	2.9	0.9	0.2	0.2	0.1	1.5	2.9	2.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
STOP Ref No.	2.9	1.0	0.1	0.2	0.1	1.5	2.9	2.8	0.1	0.1 IC8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
MODE	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
PLAY STOP	2.9	0.1 0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1 0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.9 3.1
Ref No.	2.9	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.1
MODE	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
PLAY STOP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4 1.4	0.1	3.1	3.1 3.1	0.1	0.1	0.1	0.1	0.1	0.1	3.1
Ref No.											003				· · · · · · · · · · · · · · · · · · ·	1	1	1		
MODE PLAY	0.1	2 0.1	3 0.1	0.1	5 2.9															$\vdash$
STOP	0.1	0.1	0.1	0.1	2.9					100	004									
Ref No. MODE	1	2	3	4	5	6	7	8	9	10	004 11	12	13	14						
PLAY	2.9	0.1	2.7	2.9	0.1	2.9	0.1	1.5	1.5	2.9	2.9	1.5	3.1	3.1						
STOP Ref No.	3.1	0.1	3.1	3.1	0.1	3.1	0.1 IC8	3.1 005	0.1	3.1	3.1	0.1	3.1	3.1				IC8006	<u> </u>	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14		1	2	3	4	5
PLAY STOP	0.1	0.1	0.1	0.1	1.5 1.5	1.5 1.5	0.1	0.1	0.1	0.1	0.1	1.5 1.5	1.5 1.5	2.9		-	0.4	0.1	2.7	2.9
Ref No.					007															
MODE PLAY	2.5	0.3	0.9	0	5 1.2	6 0.9	7 0.9	3.0				<u> </u>					<u> </u>			
STOP	2.5	0.3	0.9	0	1.2	0.9	0.9	3.0		100	101									
Ref No. MODE	1	2	3	4	5	6	7	8	9	10	101 11	12	13	14	15	16	17	18	19	20
PLAY	2.3	2.3	2.3	2.4	2.6	2.6	4.9	-0.1	0	2.3	2.3	2.3	2.3	2.3						
STOP Ref No.	2.4	2.4	2.3	2.4	2.6	2.6	4.9	-0.1	2.4	2.4 IC8	2.4 101	2.3	2.3	2.4			<u> </u>		<u> </u>	
MODE PLAY	21 0.1	22 0.1	23 4.9	24																
STOP	0.1	0.1	4.9	-																
Ref No.	4	2	2		F	6		203		10	11	10	12	14						
MODE PLAY	2.9	2.9	3 4.8	2.8	5 2.8	6 4.6	7 0.1	8 4.9	9 2.9	10 2.9	11 1.4	12 1.2	13 1.0	14 4.9						
STOP	2.9	2.9	4.9	2.8	2.8	4.7	0.1	4.9	2.9	2.9	1.5	1.1	1.0	4.9						
Ref No. MODE	1	2	3	4	5 5	6	7	8								L				
PLAY	0.1	0.1	0.1	0.1	4.9	4.9	0.1	4.9												
STOP	0.1	0.1	0.1	0.1	4.9	4.9	0.1	4.9								<u> </u>	<u> </u>	<u> </u>	<u> </u>	

### 16.8. FRONT SW SCHEMATIC DIAGRAM



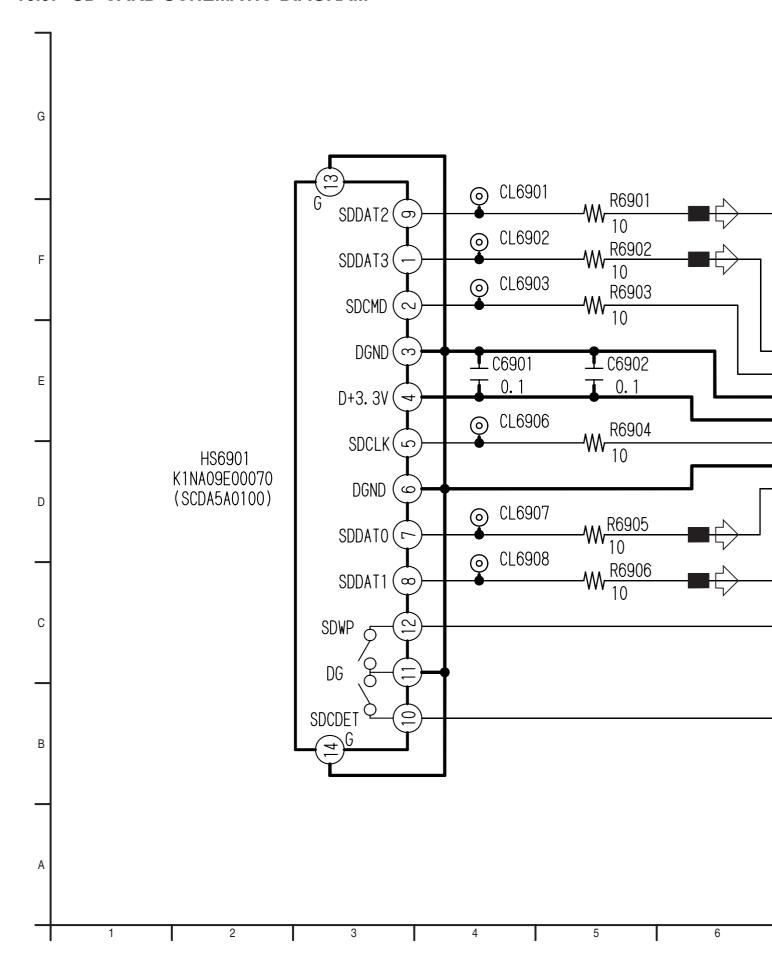






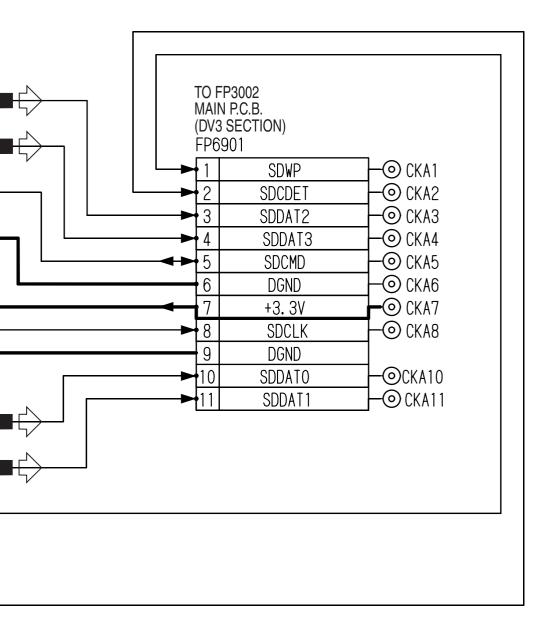
### ---

### 16.9. SD CARD SCHEMATIC DIAGRAM



### ---

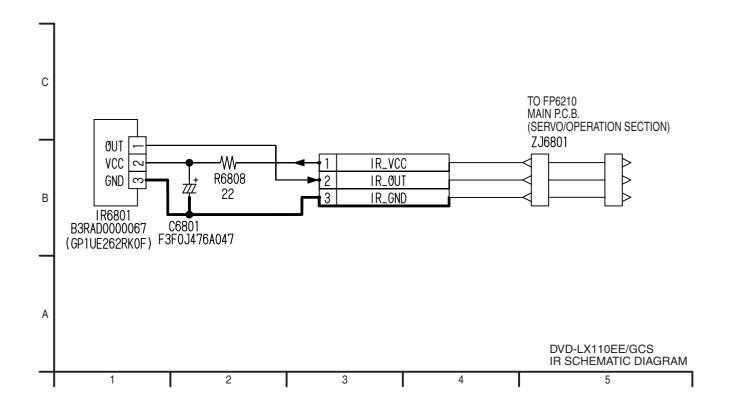
# ■ ⇔ SD SIGNAL

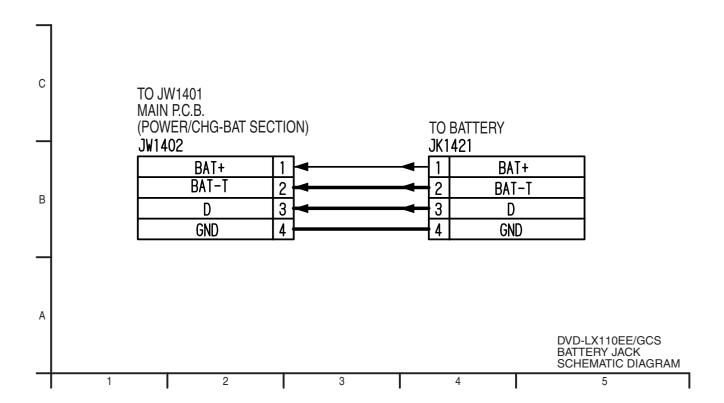




## ---

### 16.10. IR & BATTERY JACK SCHEMATIC DIAGRAM

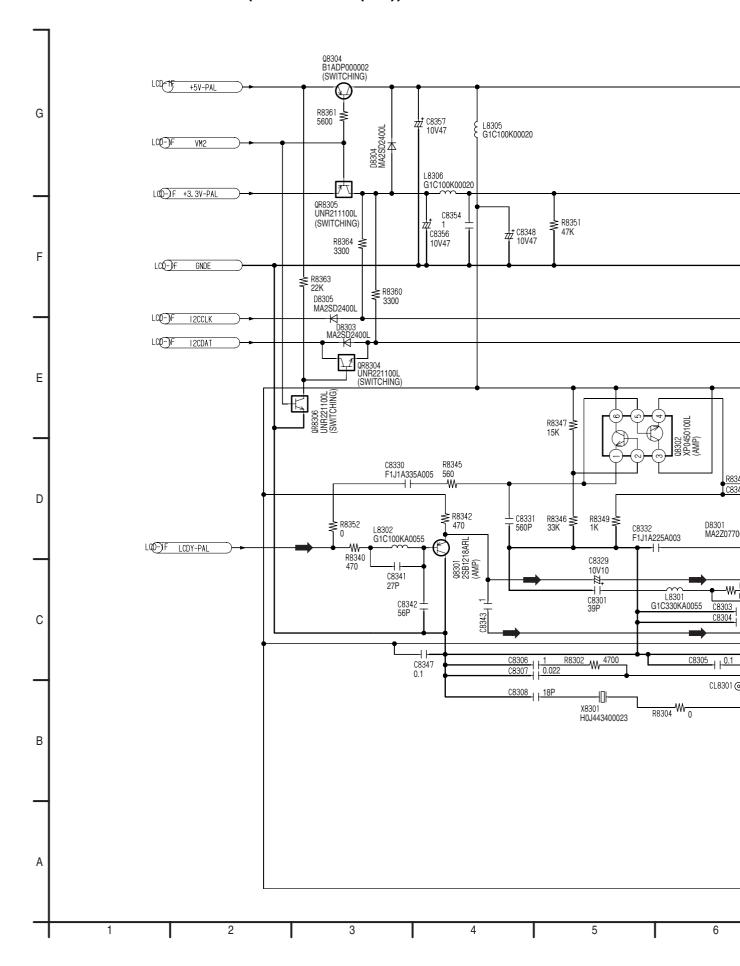


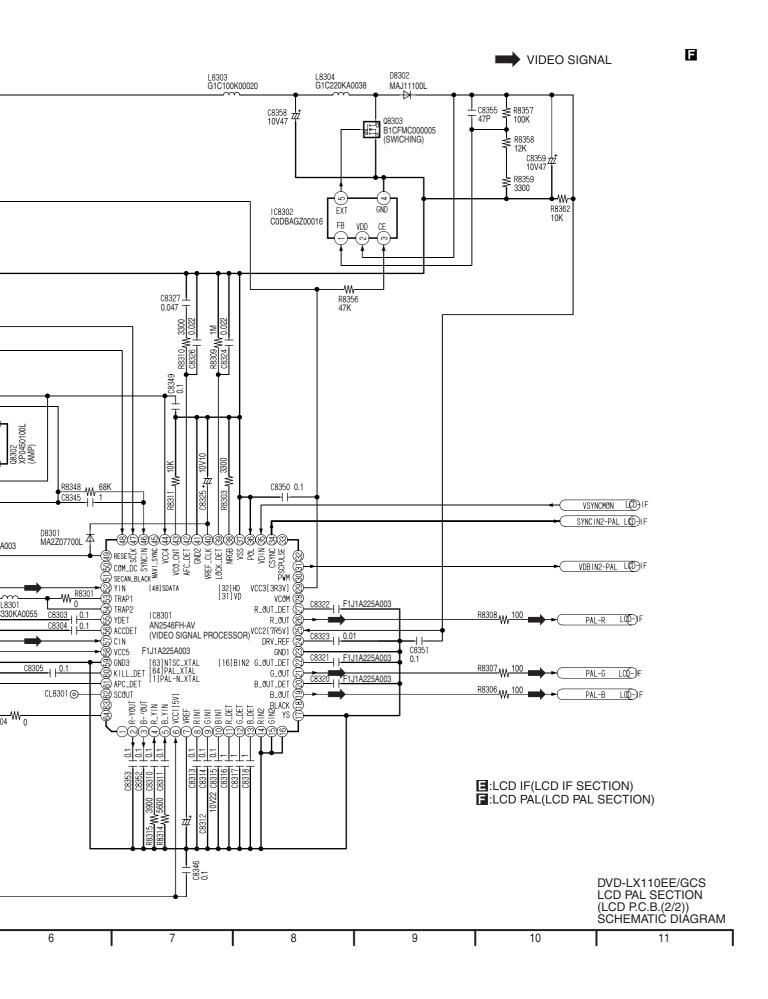


AM

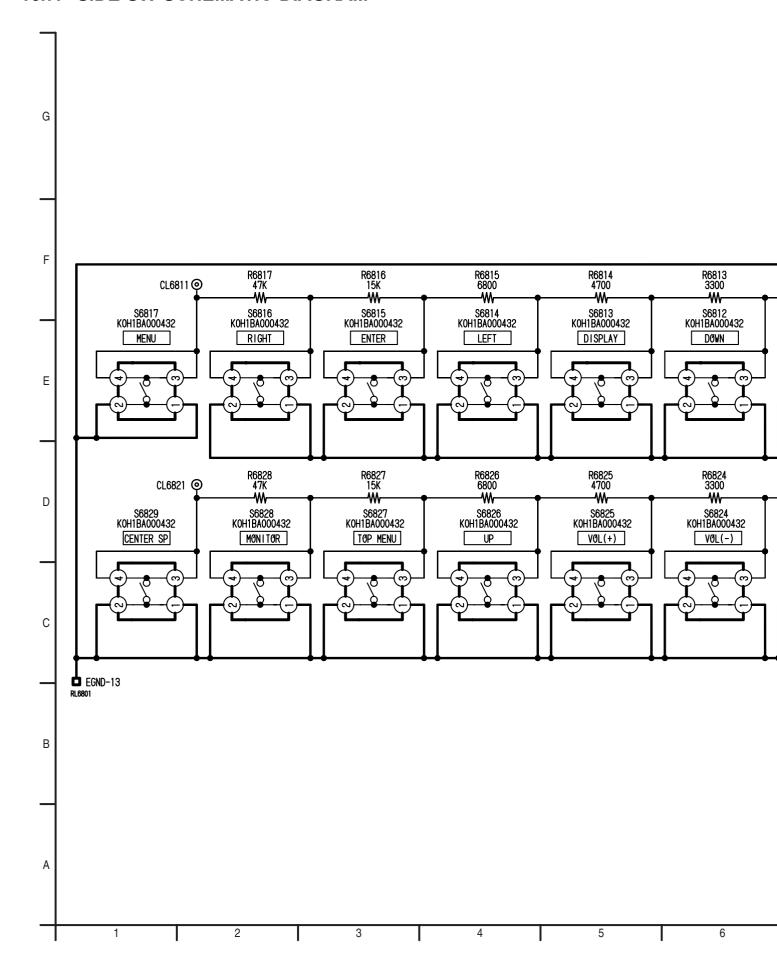
\_\_\_67

# 16.6. LCD PAL SECTION (LCD P.C.B. (2/2)) SCHEMATIC DIAGRAM

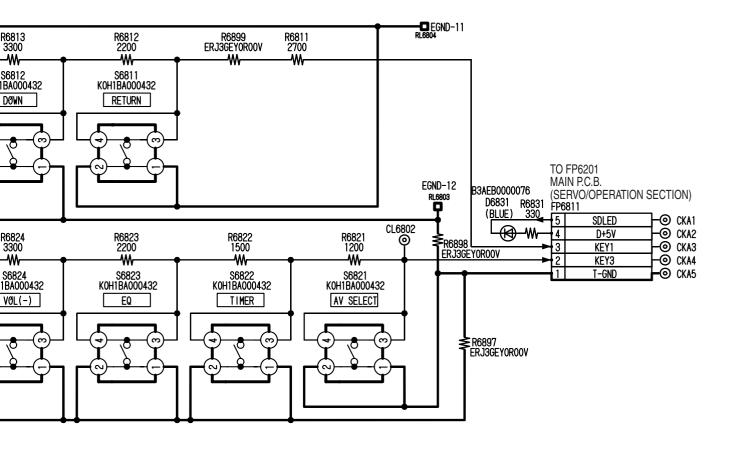




### 16.7. SIDE SW SCHEMATIC DIAGRAM

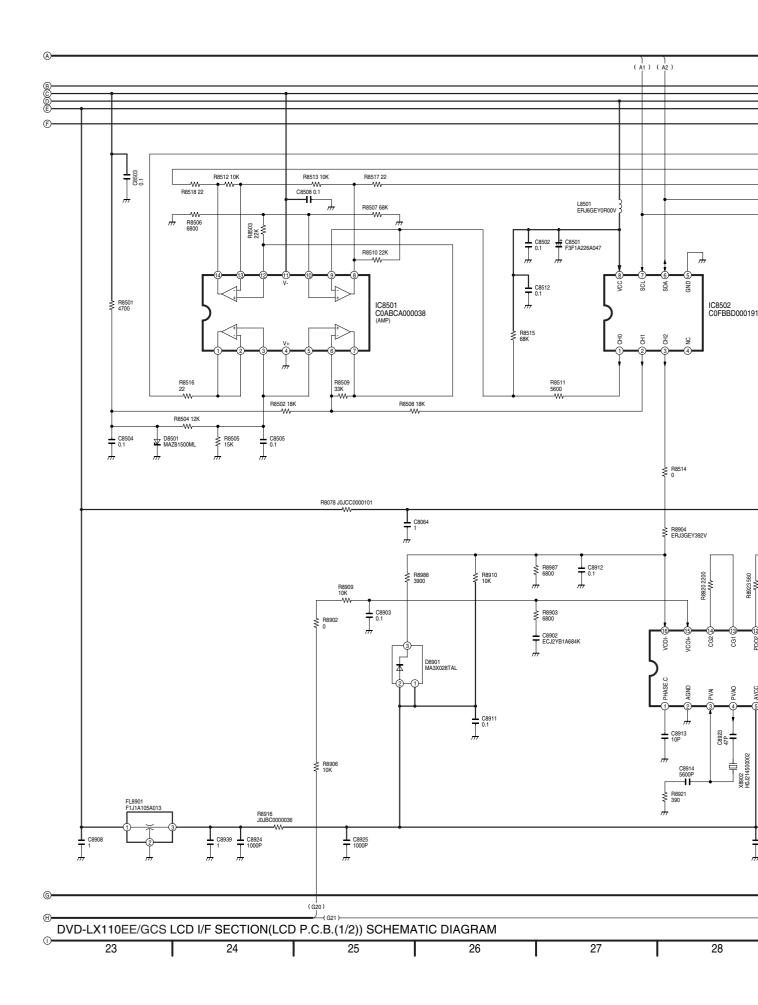


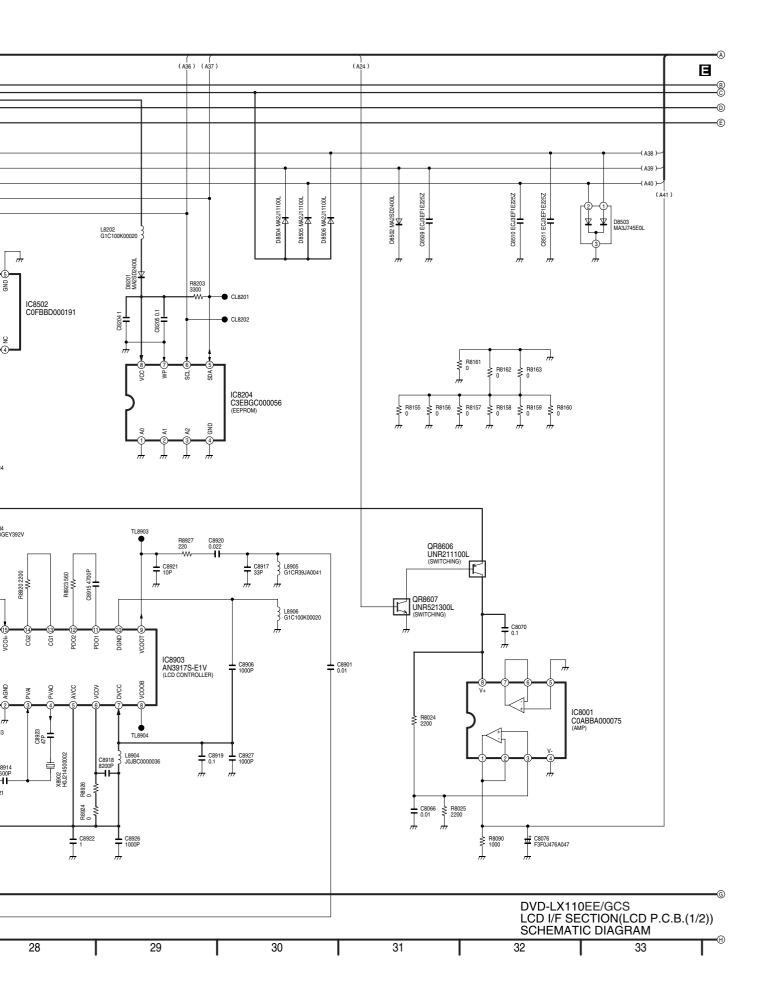


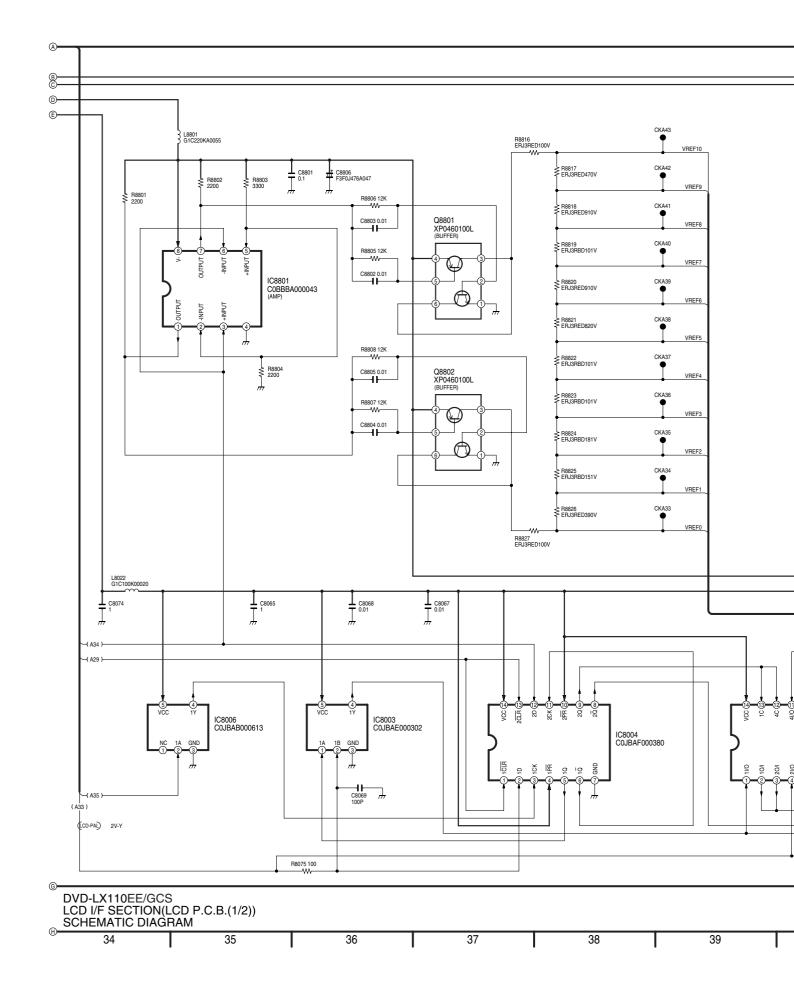


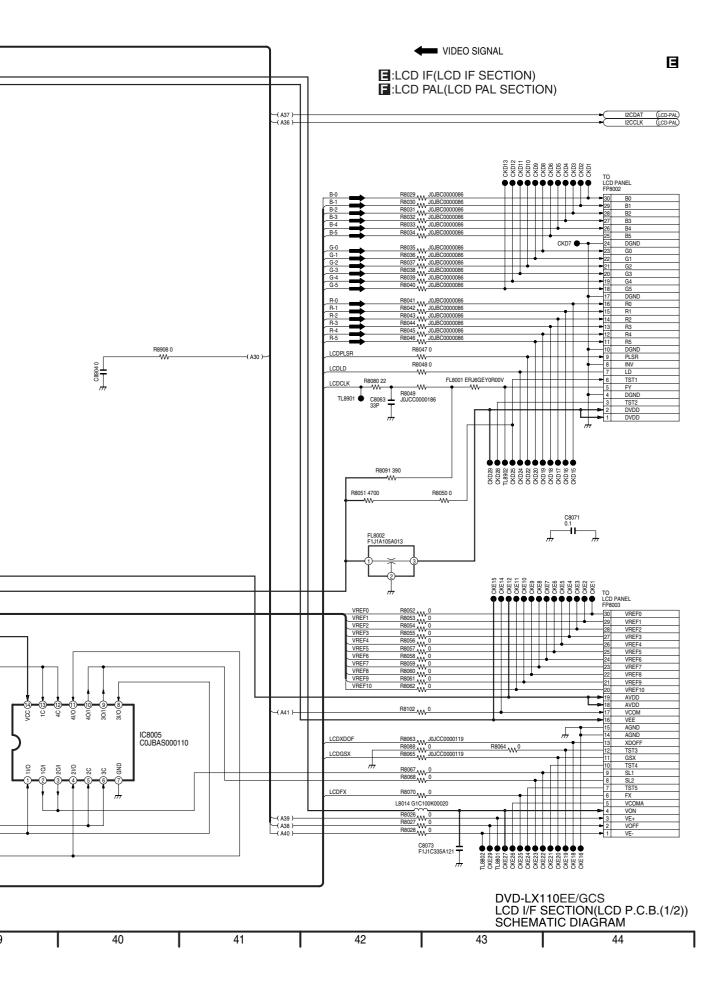
DVD-LX110EE/GCS
SIDE SWITCH
SCHEMATIC DIAGRAM

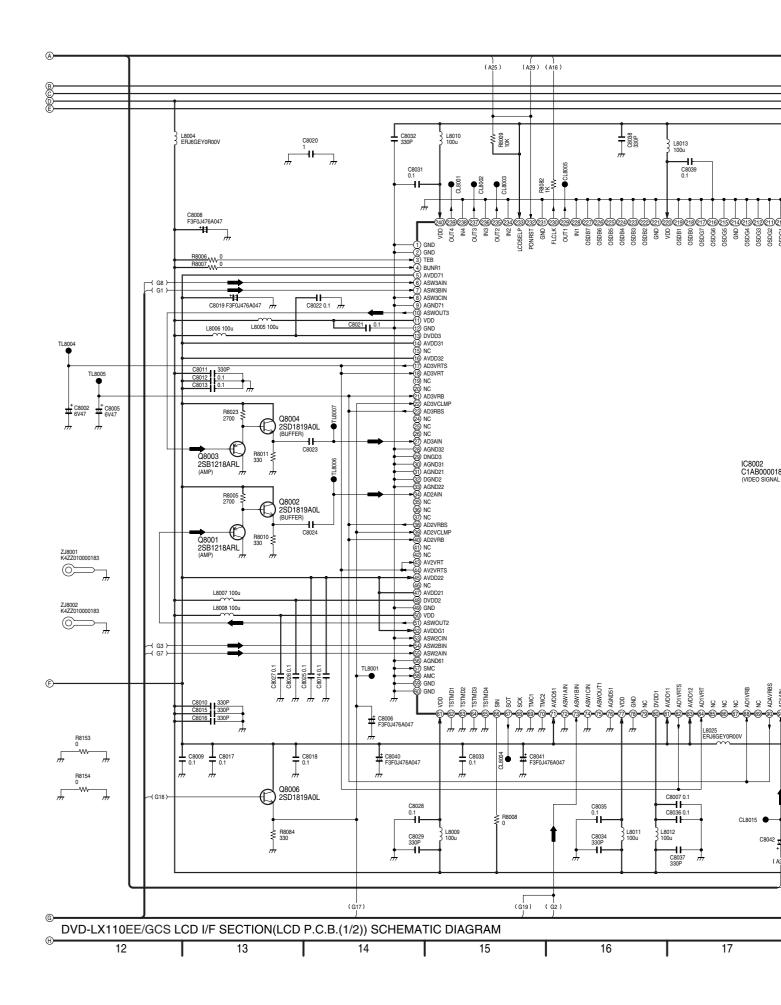
64\_\_\_\_

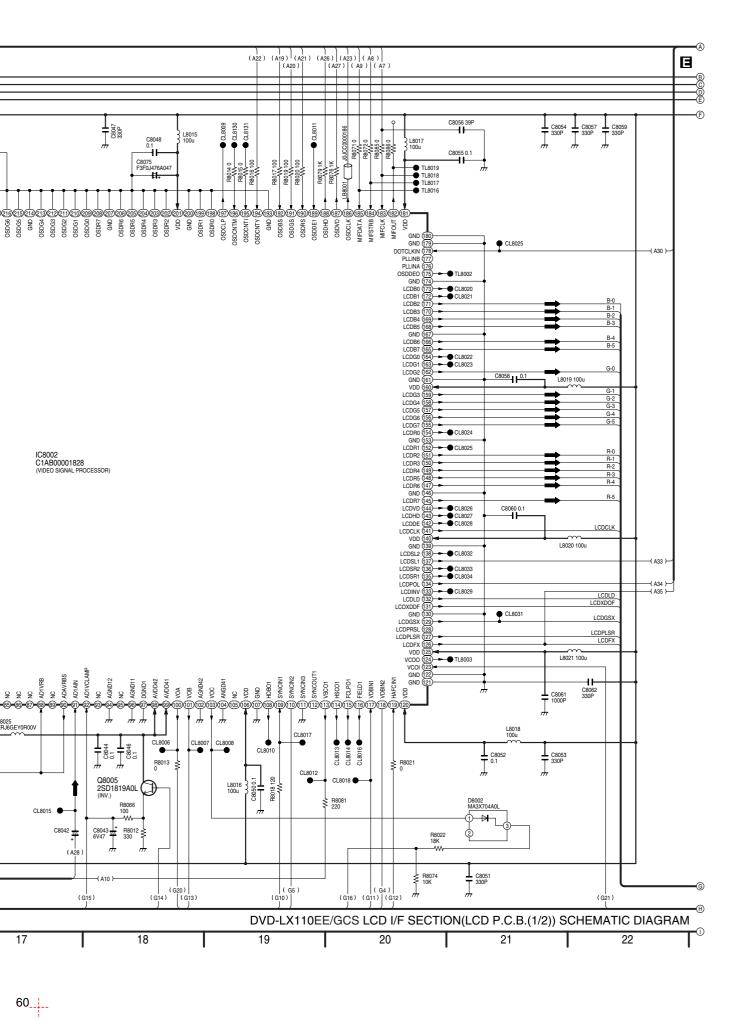






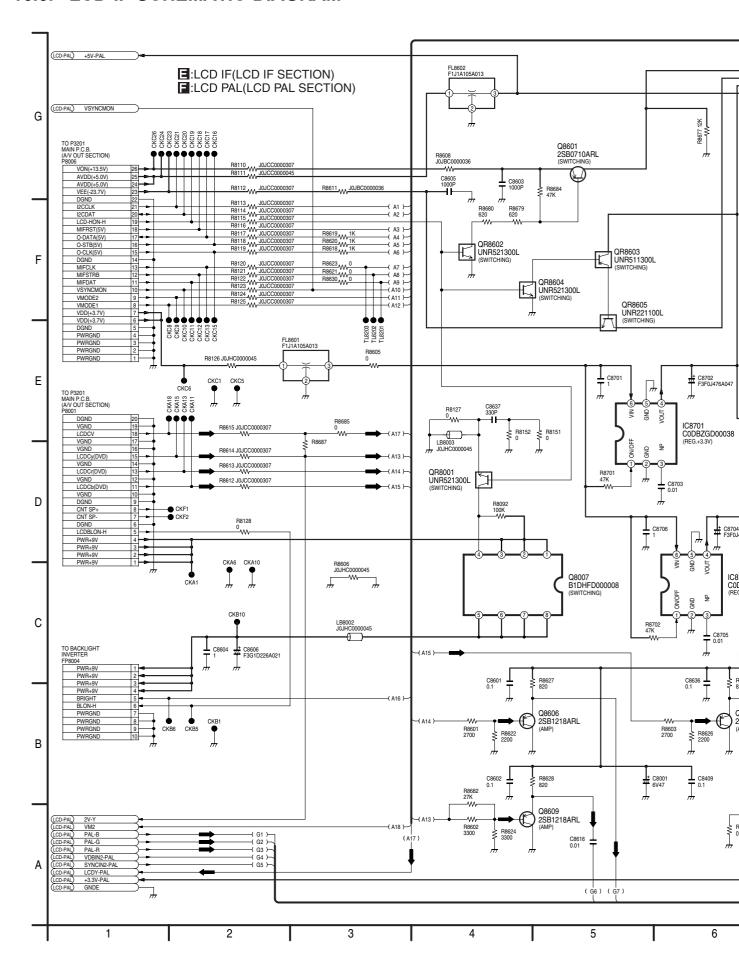


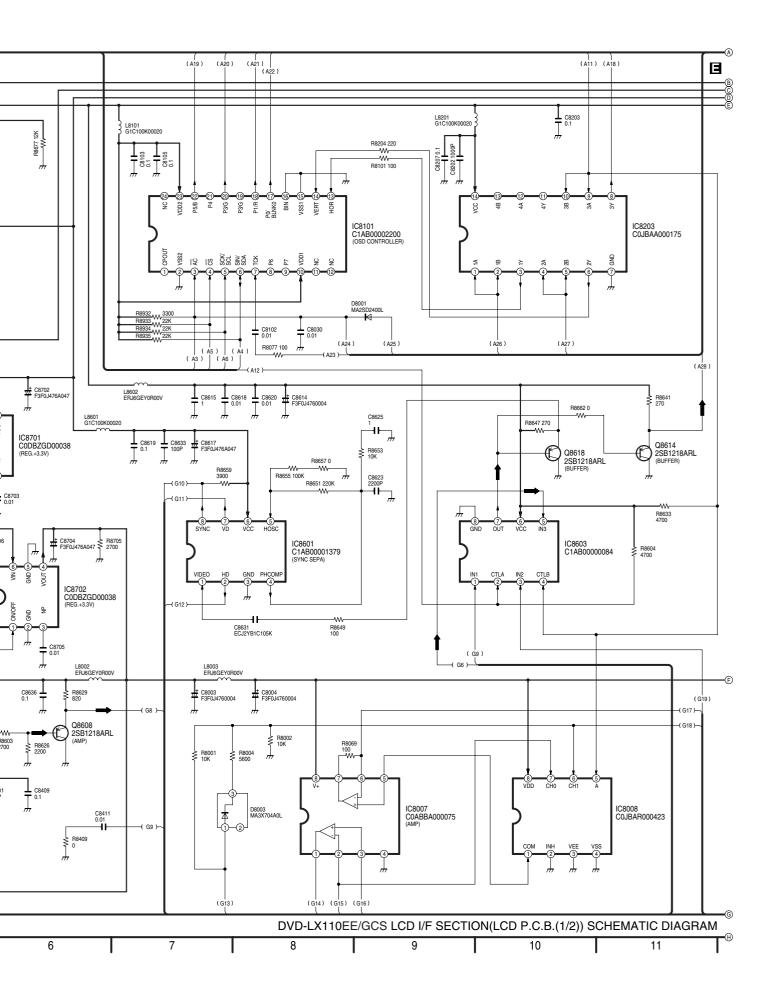




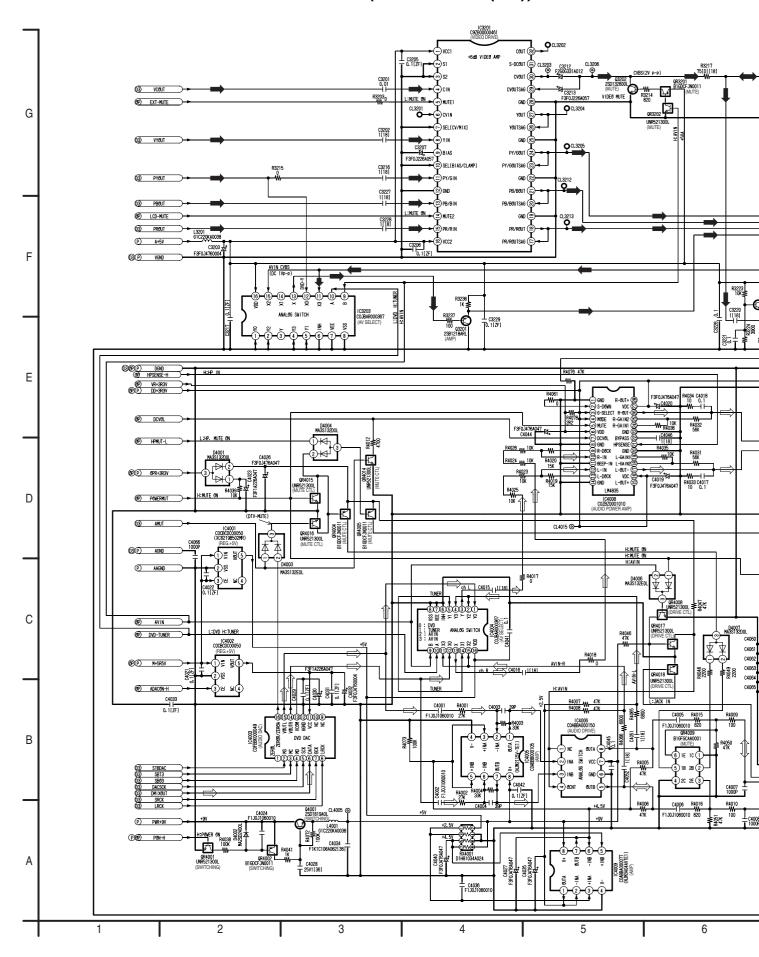
## -----

#### 16.5. LCD IF SCHEMATIC DIAGRAM

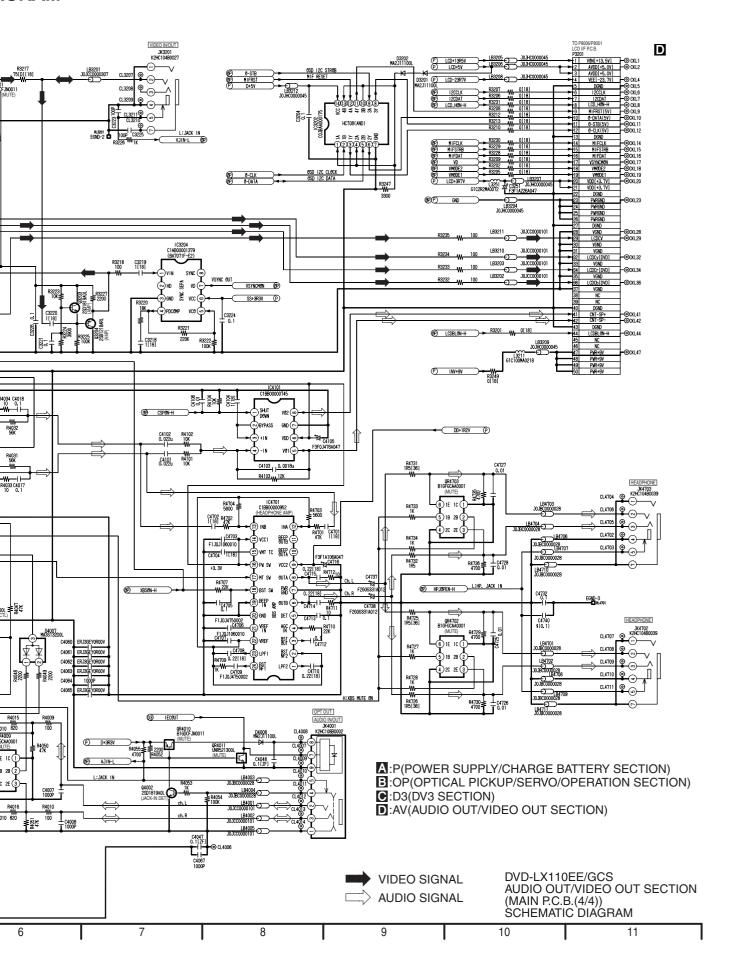




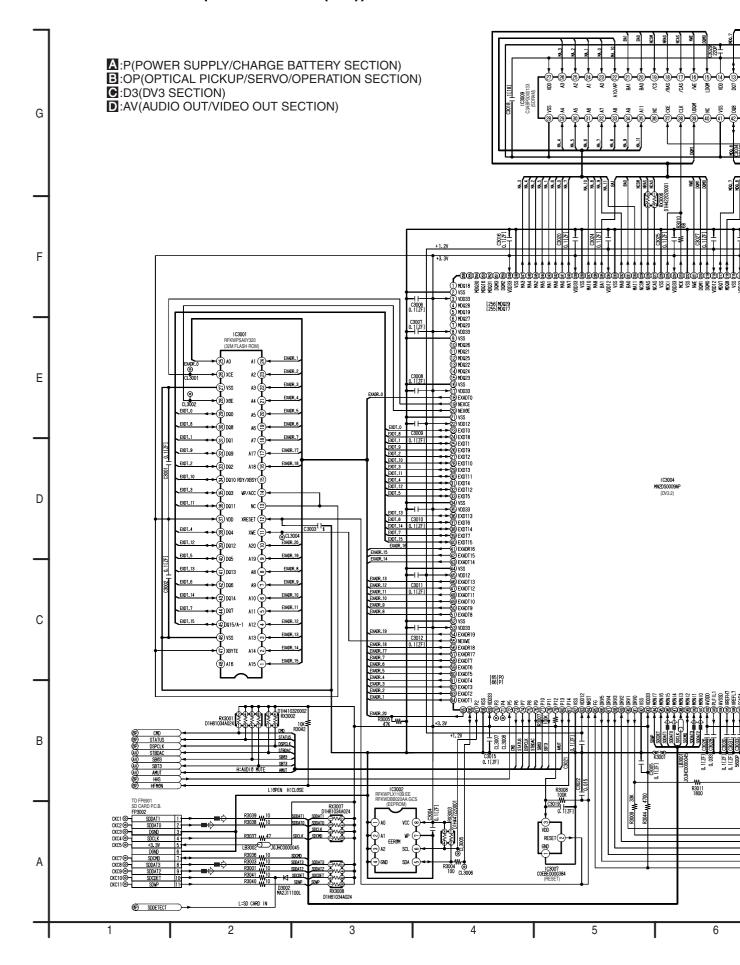
# 16.4. AUDIO OUT/VIDEO OUT SECTION (MAIN P.C.B. (4/4)) SCHEMATIC DIAGRAM

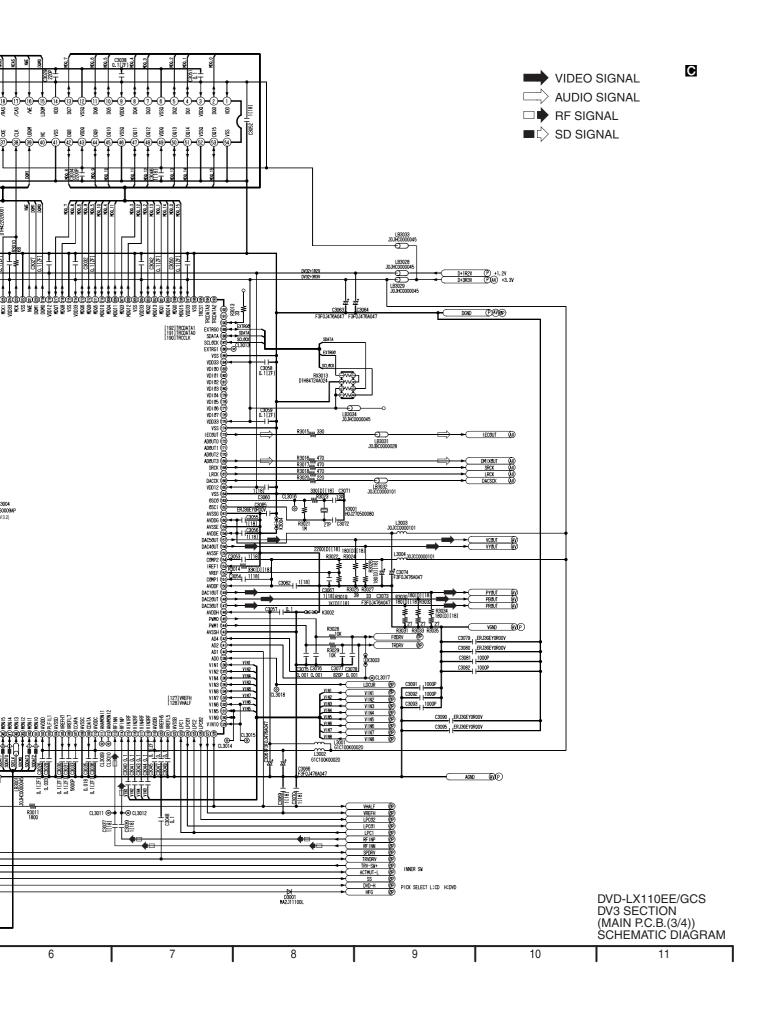


#### GRAM



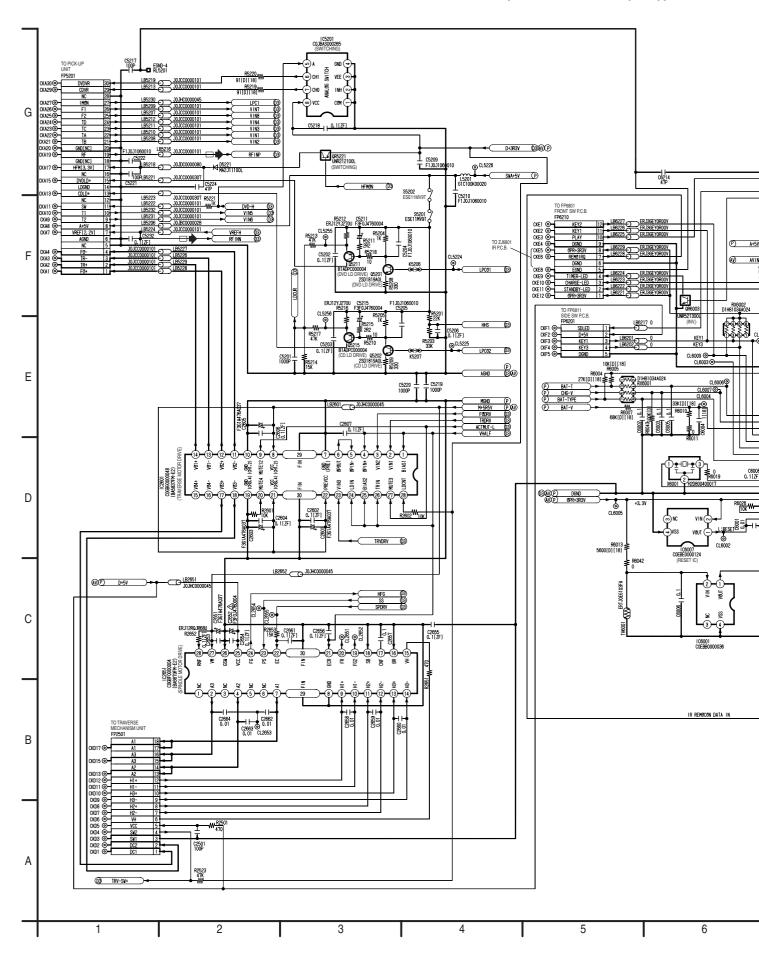
## 16.3. DV3 SECTION (MAIN P.C.B. (3/4)) SCHEMATIC DIAGRAM





### ----

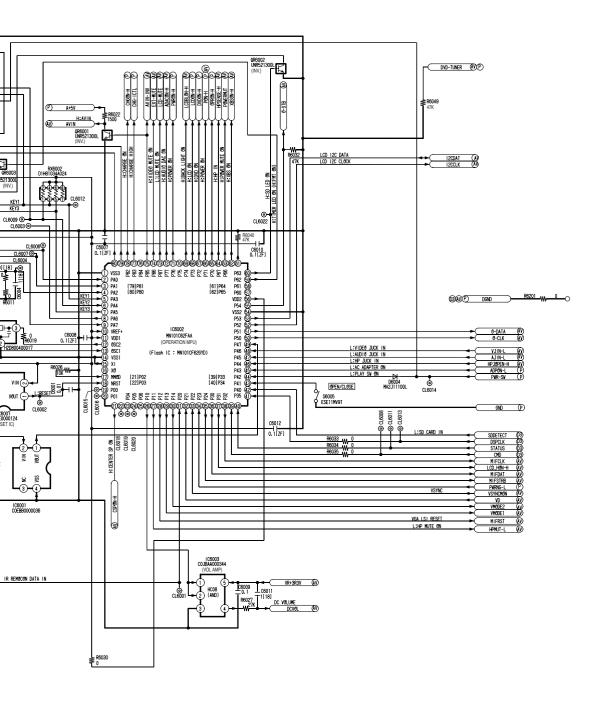
# 16.2. OPTICAL PICK UP/SERVO/OPERATION SECTION (MAIN P.C.B. (2/4)) SCHEMA



### SCHEMATIC DIAGRAM

В

□ ▶ RF SIGNAL



A:P(POWER SUPPLY/CHARGE BATTERY SECTION)

**B**:OP(OPTICAL PICKUP/SERVO/OPERATION SECTION)

C:D3(DV3 SECTION)

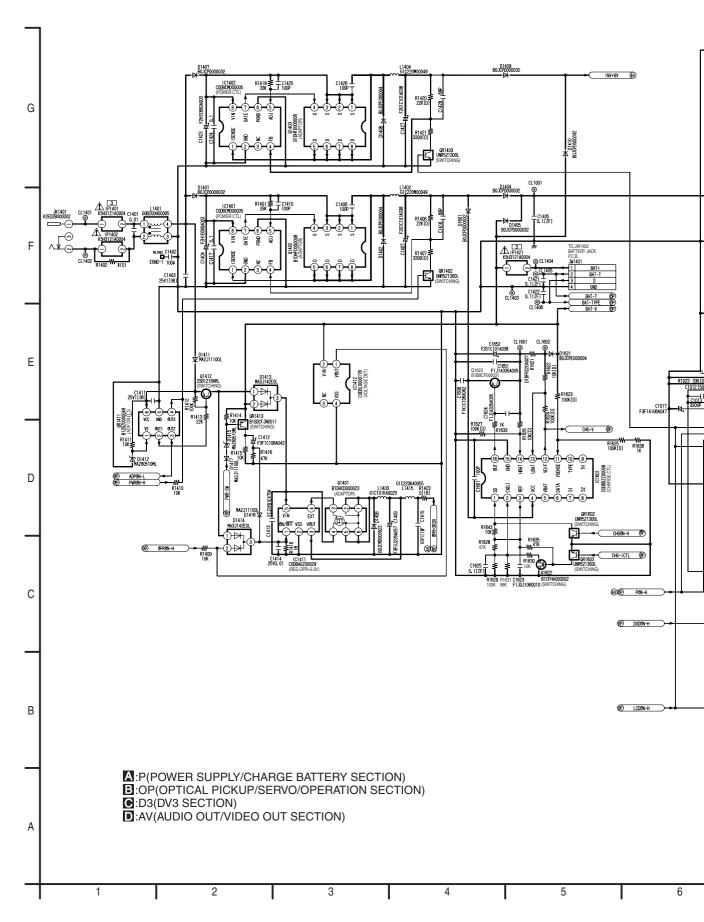
:AV(AUDIO OUT/VÍDEO OUT SECTION)

DVD-LX110EE/GCS OPTICAL PICKUP/SERVO/ OPERATION SECTION (MAIN P.C.B.(2/4)) SCHEMATIC DIAGRAM

6 7 8 9 10 11

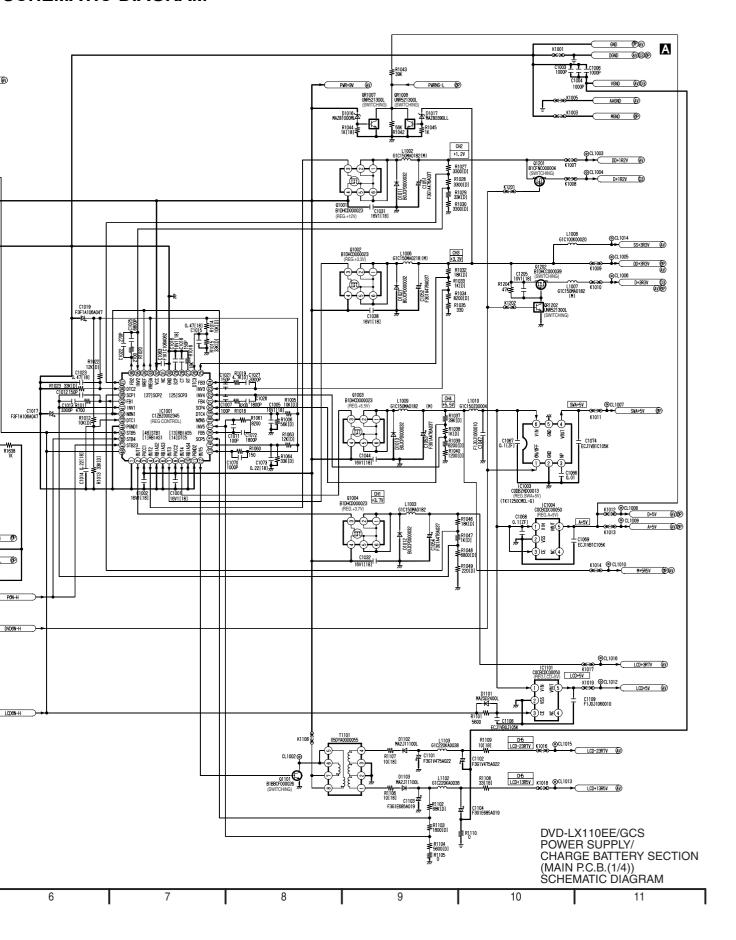
# 16 SCHEMATIC DIAGRAM

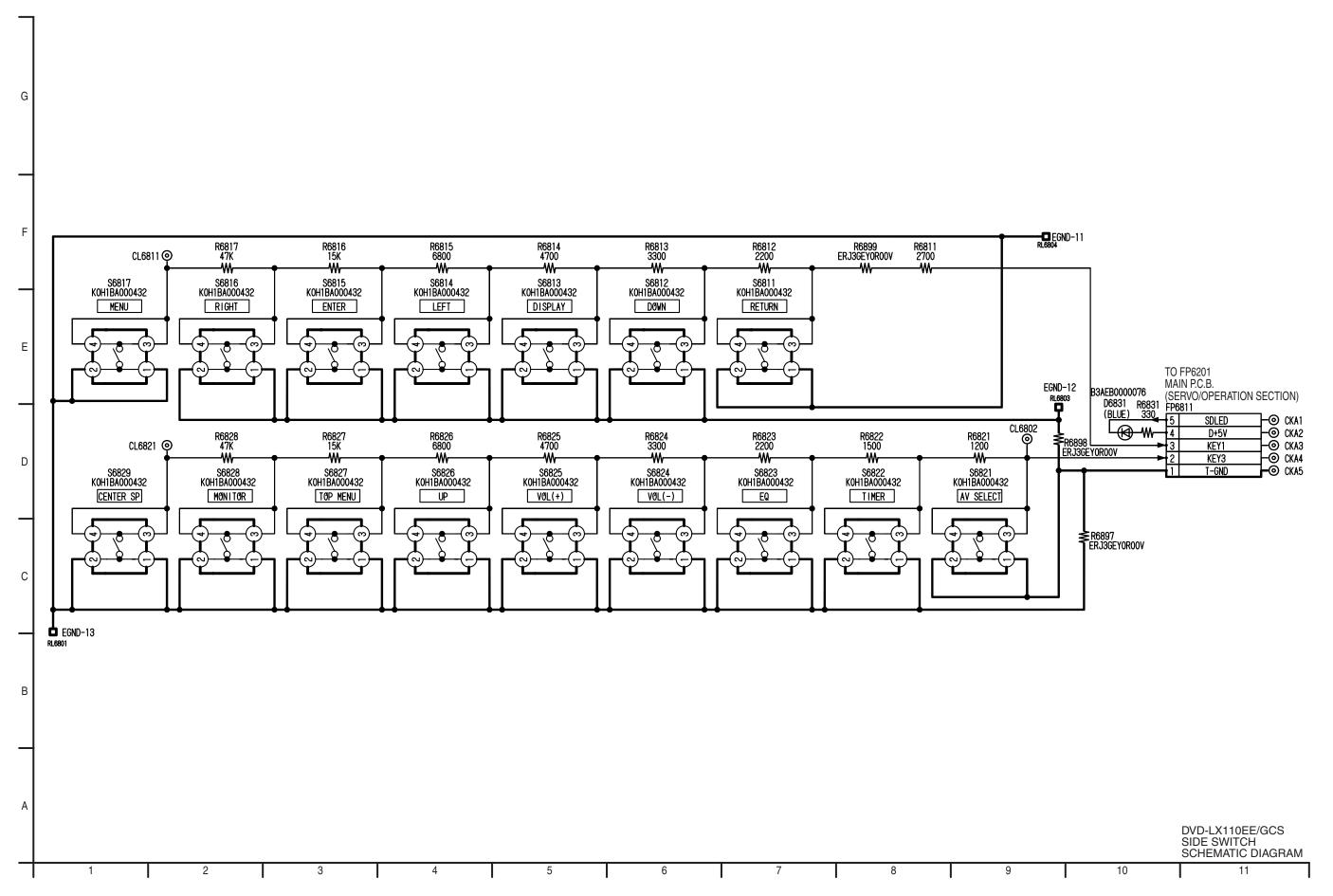
# 16.1. POWER SUPPLY/CHARGE BATTERY SECTION (MAIN P.C.B. (1/4)) SCHEMA

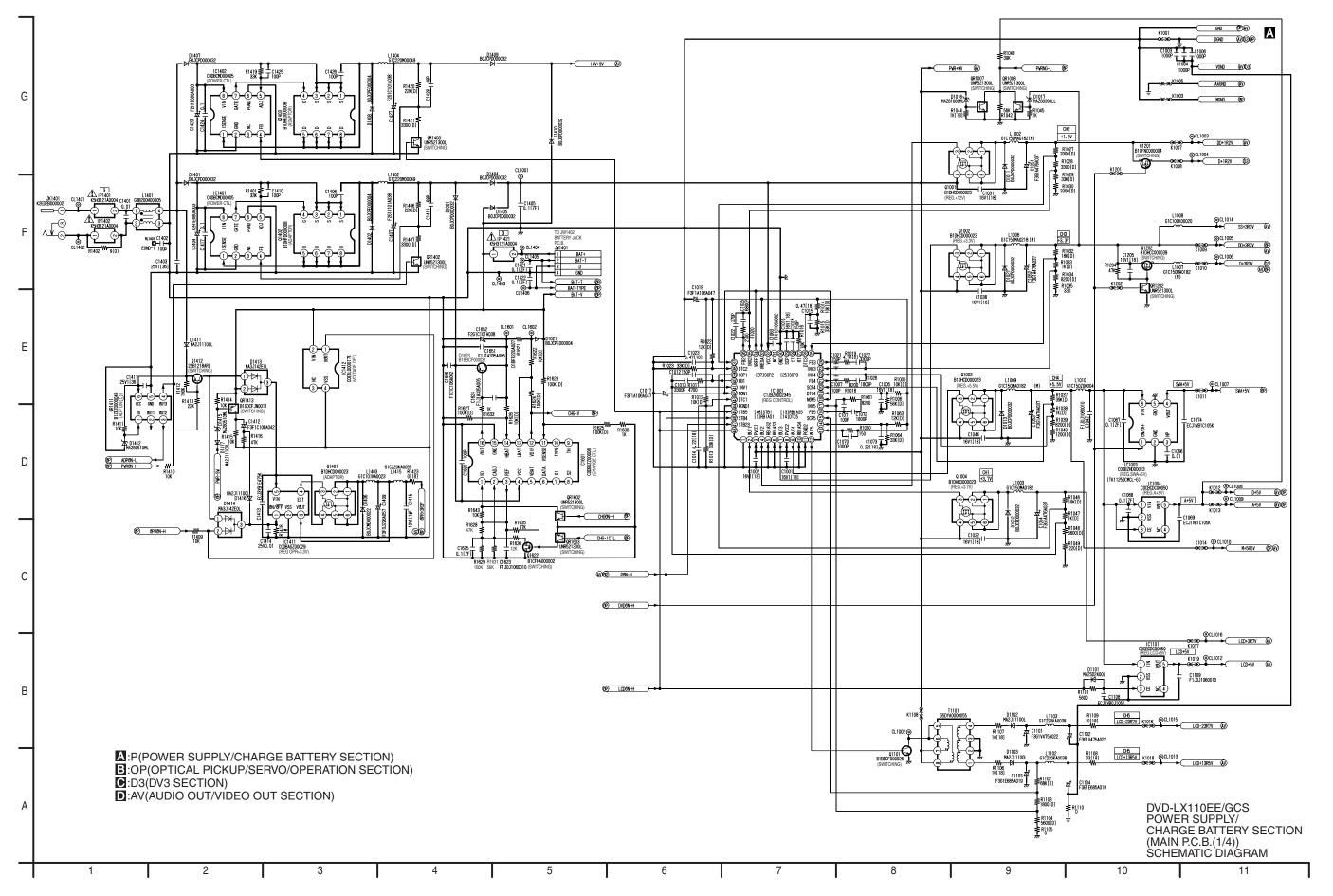


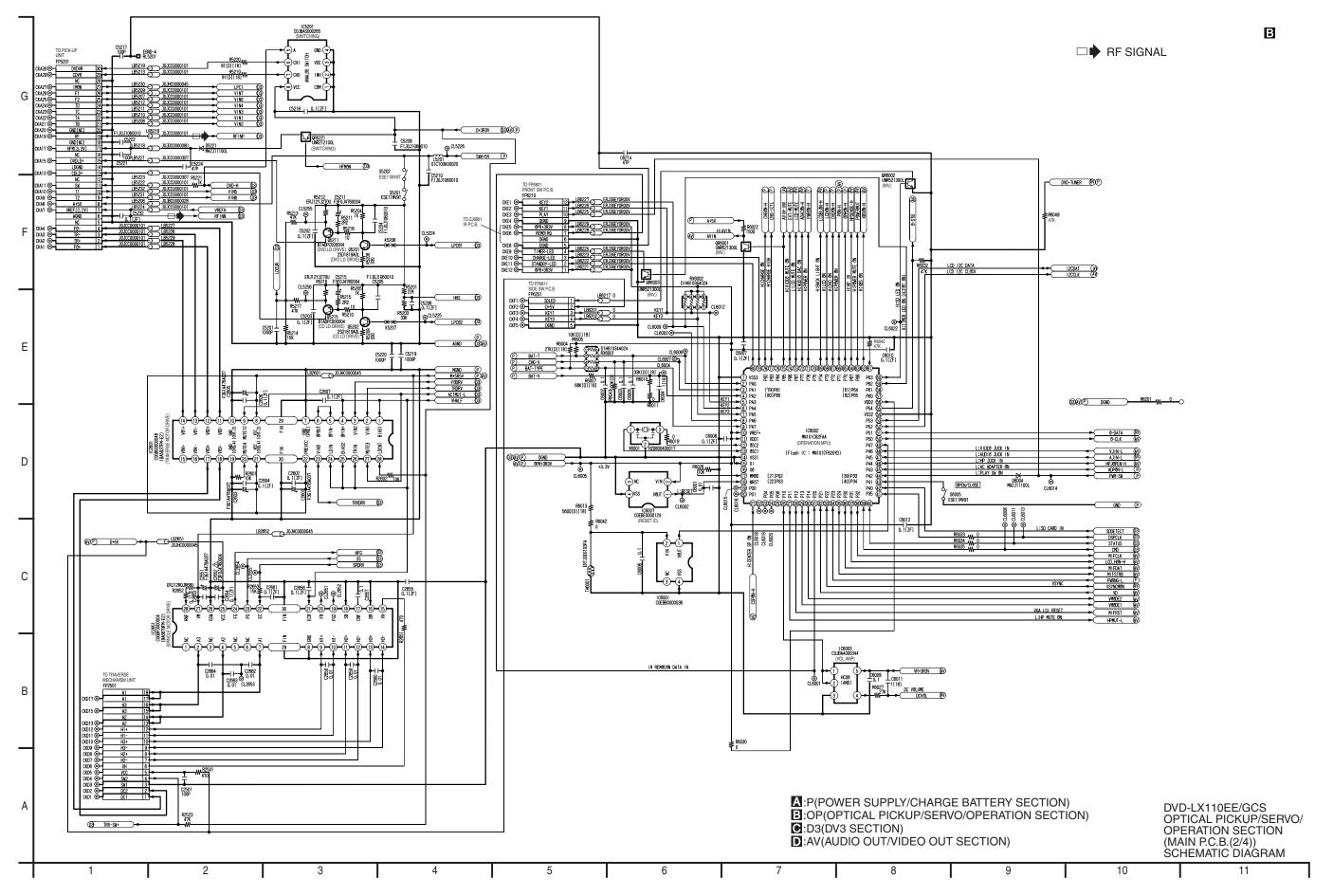
### ----

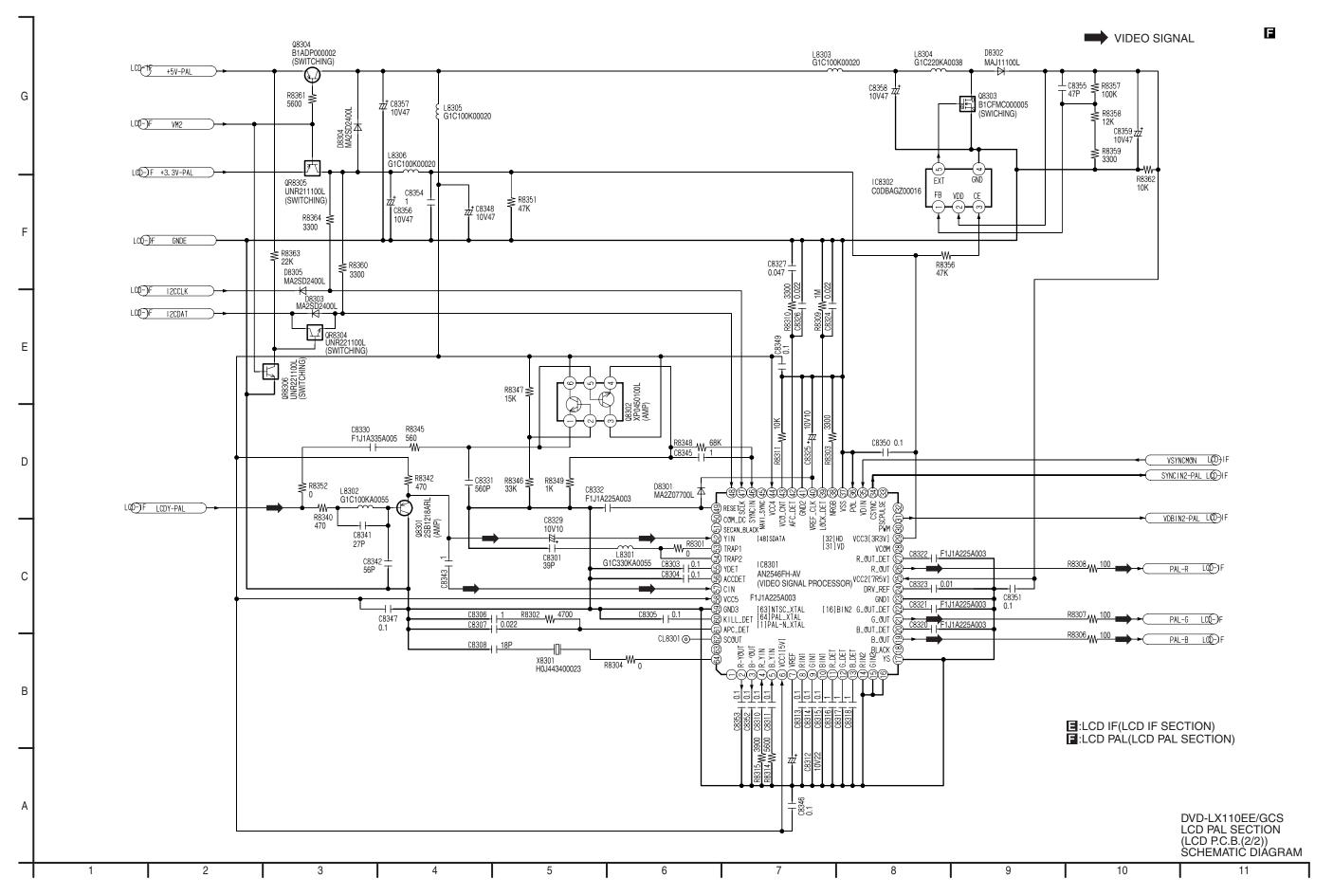
#### **SCHEMATIC DIAGRAM**

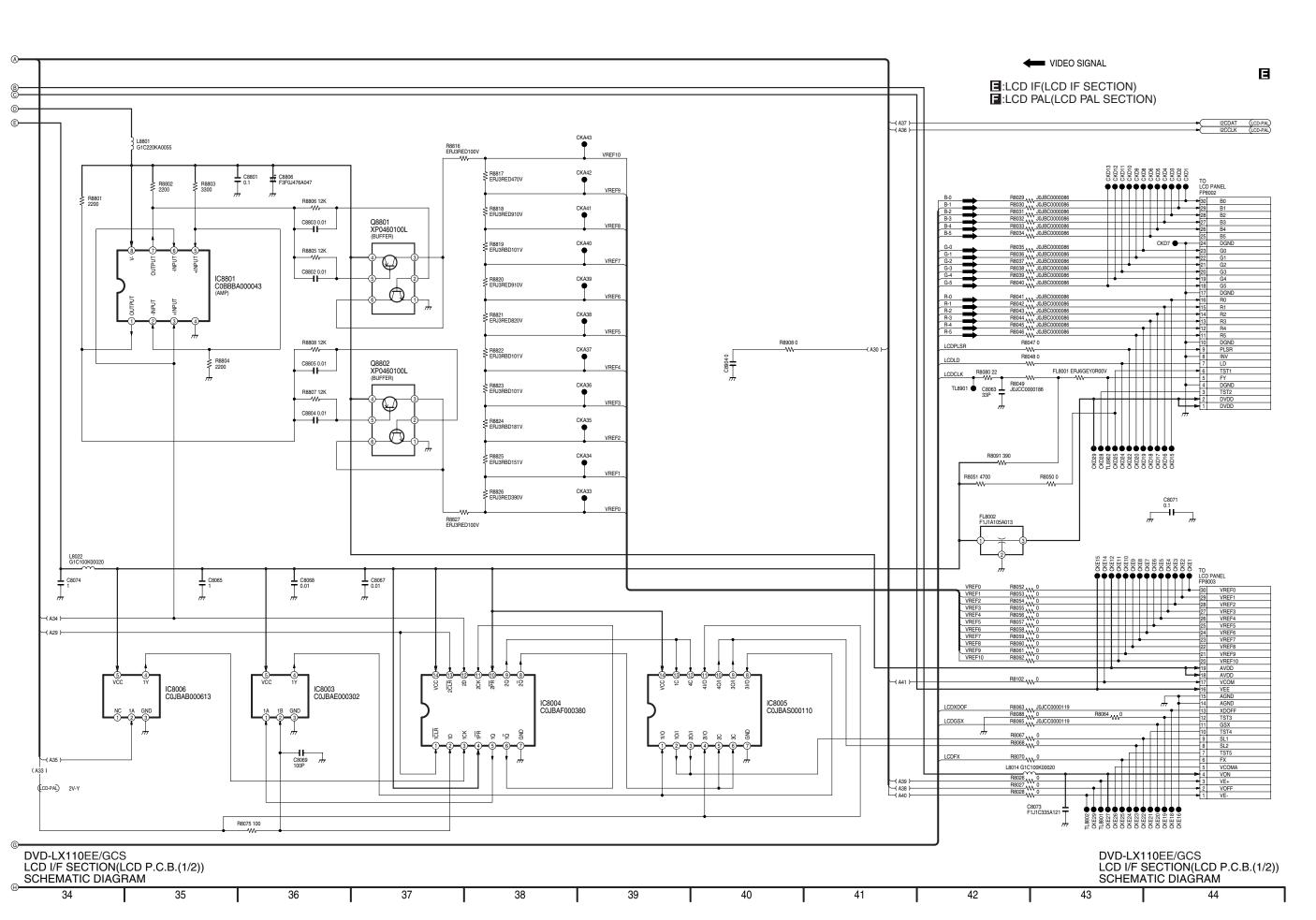


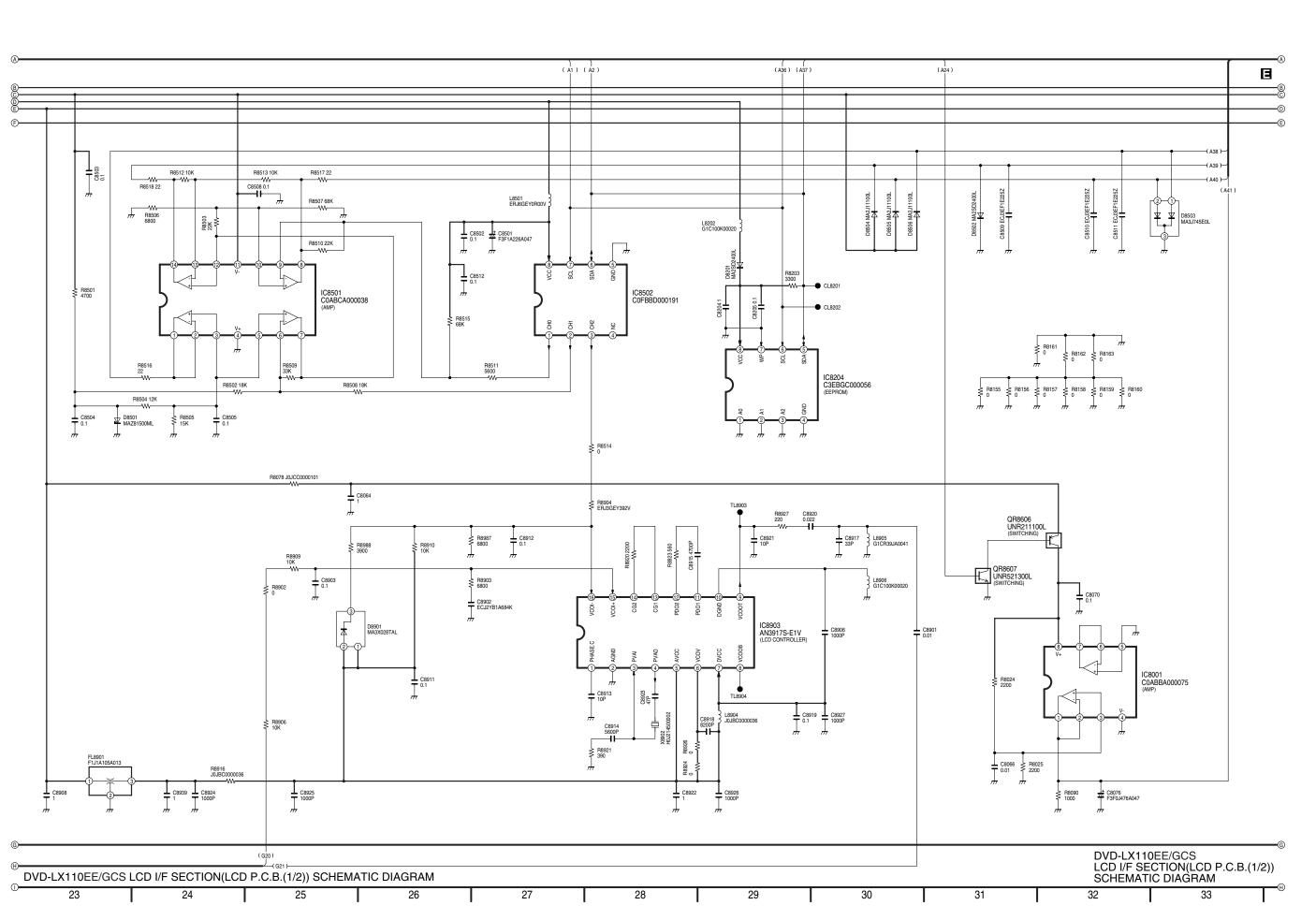


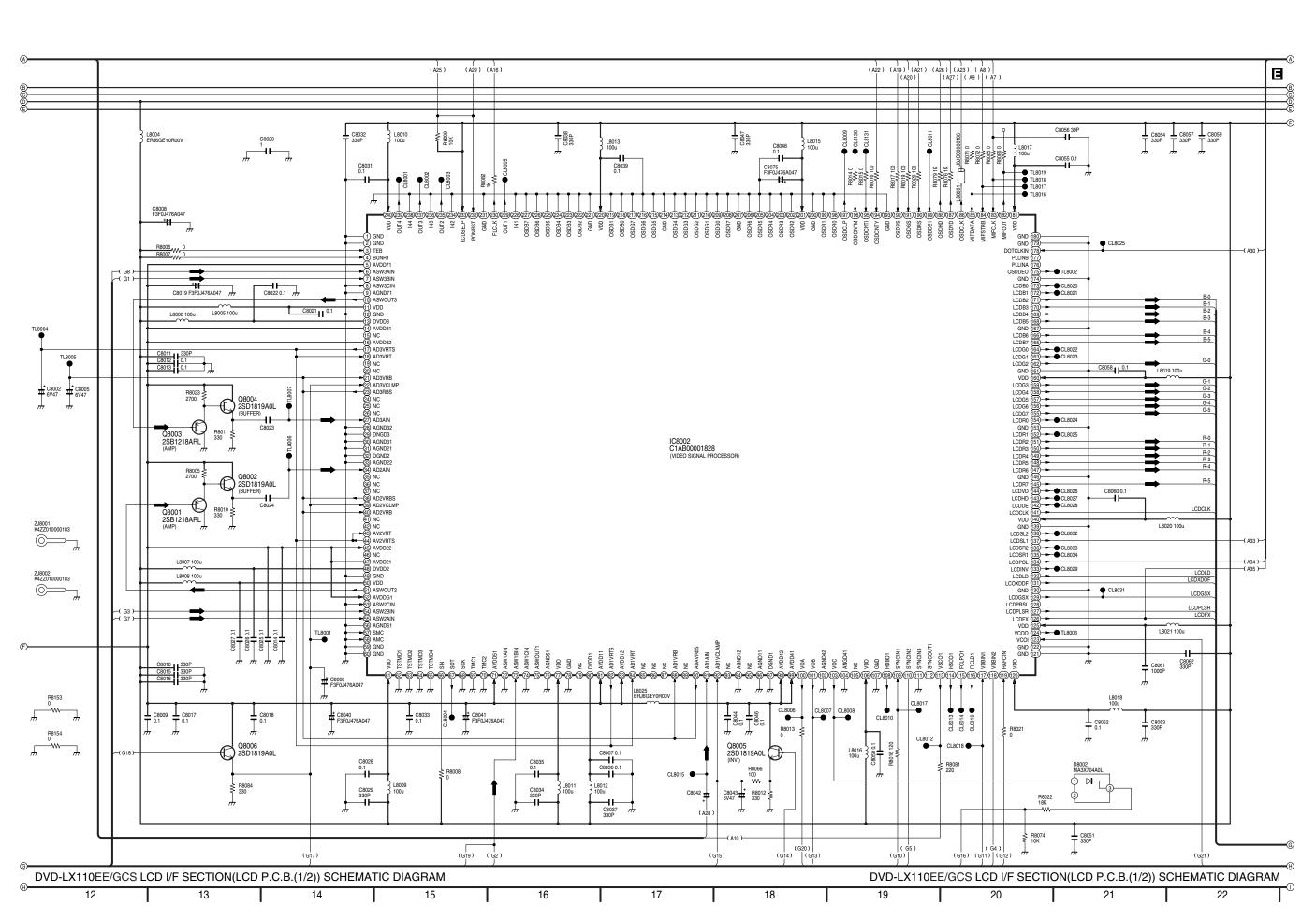


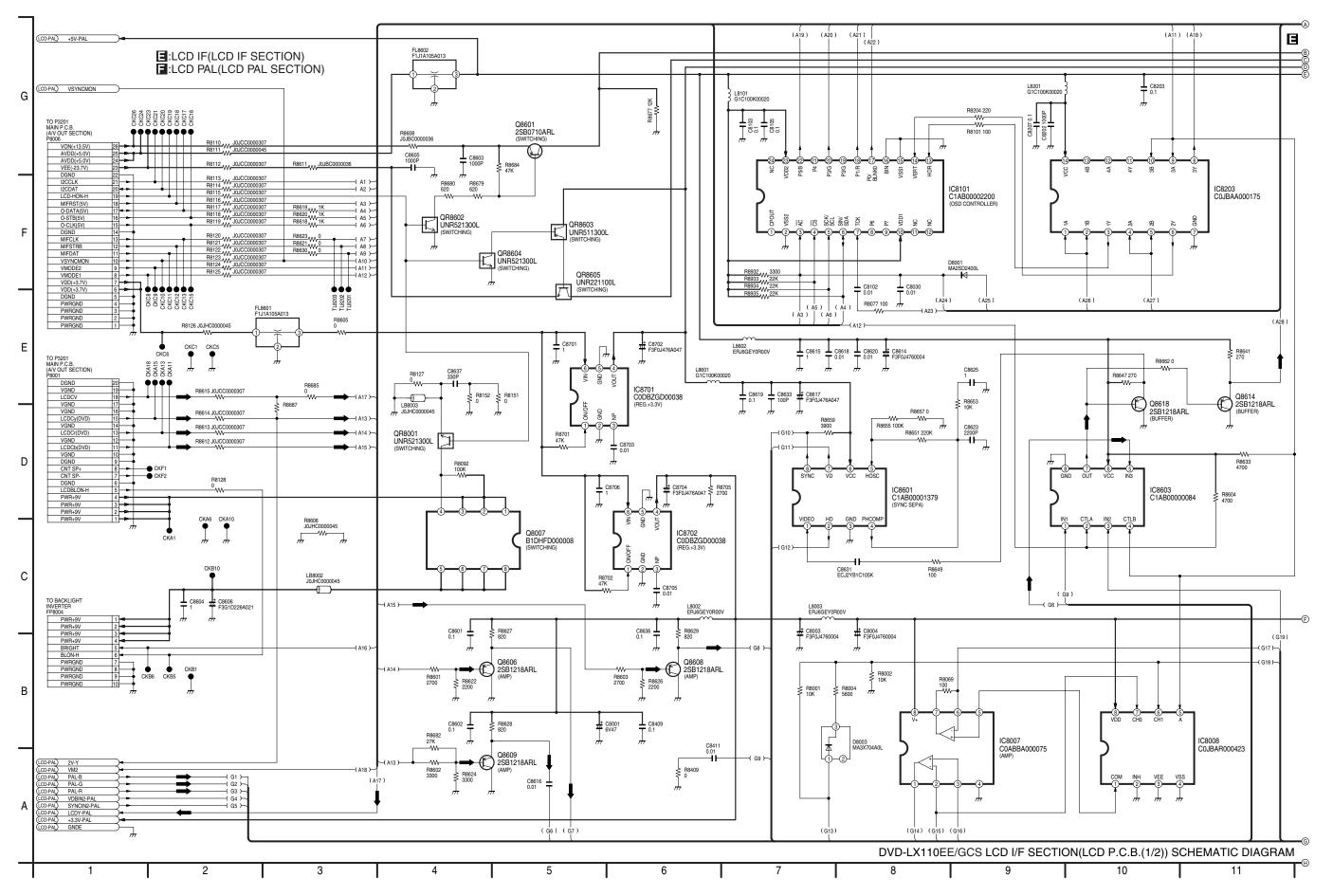


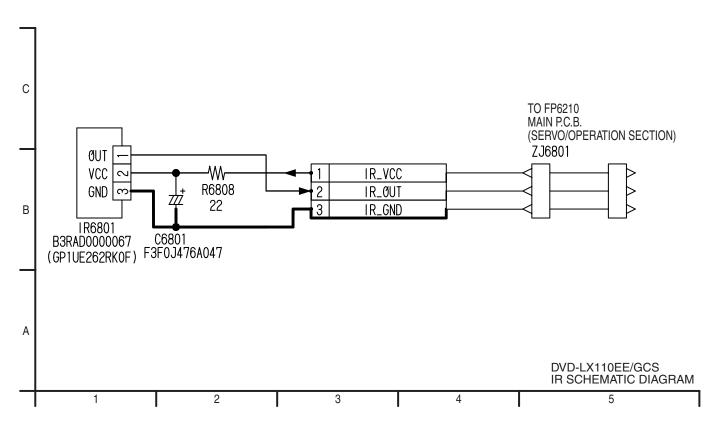


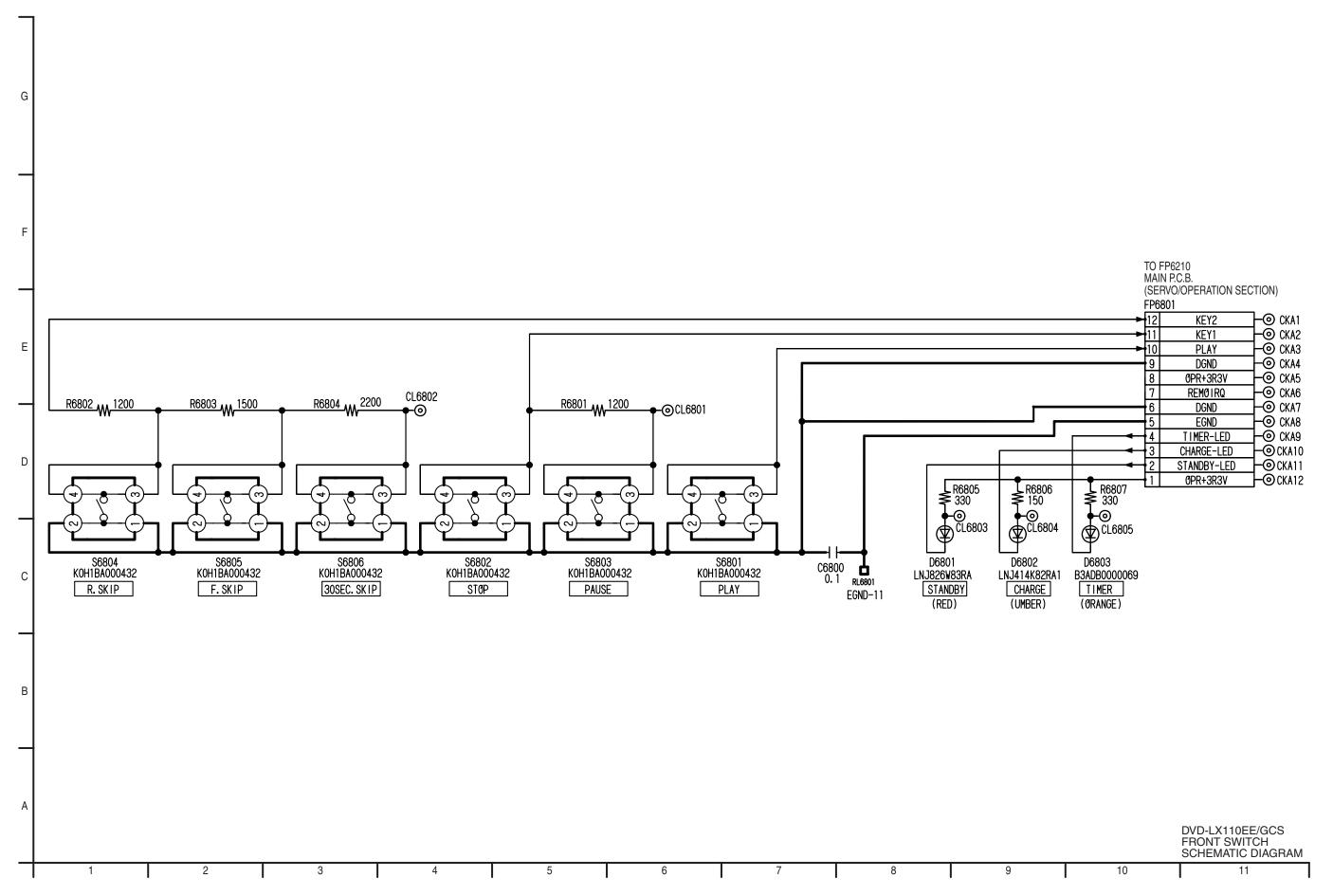


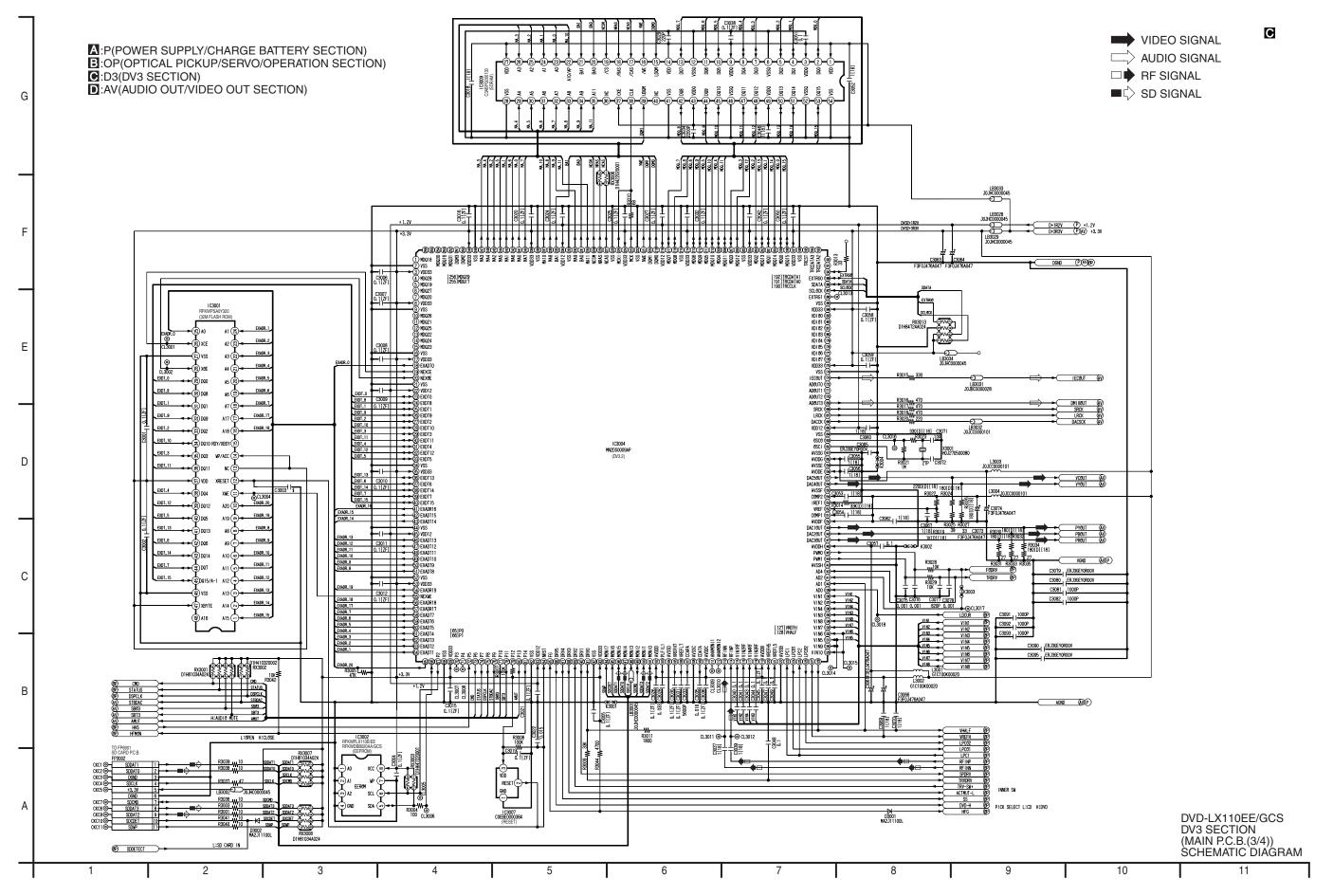


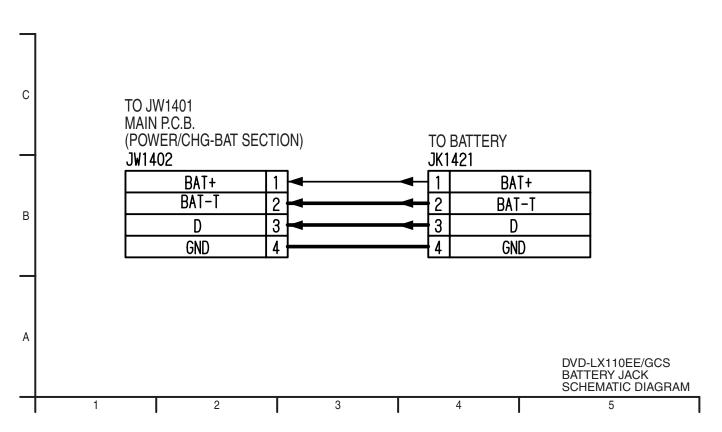


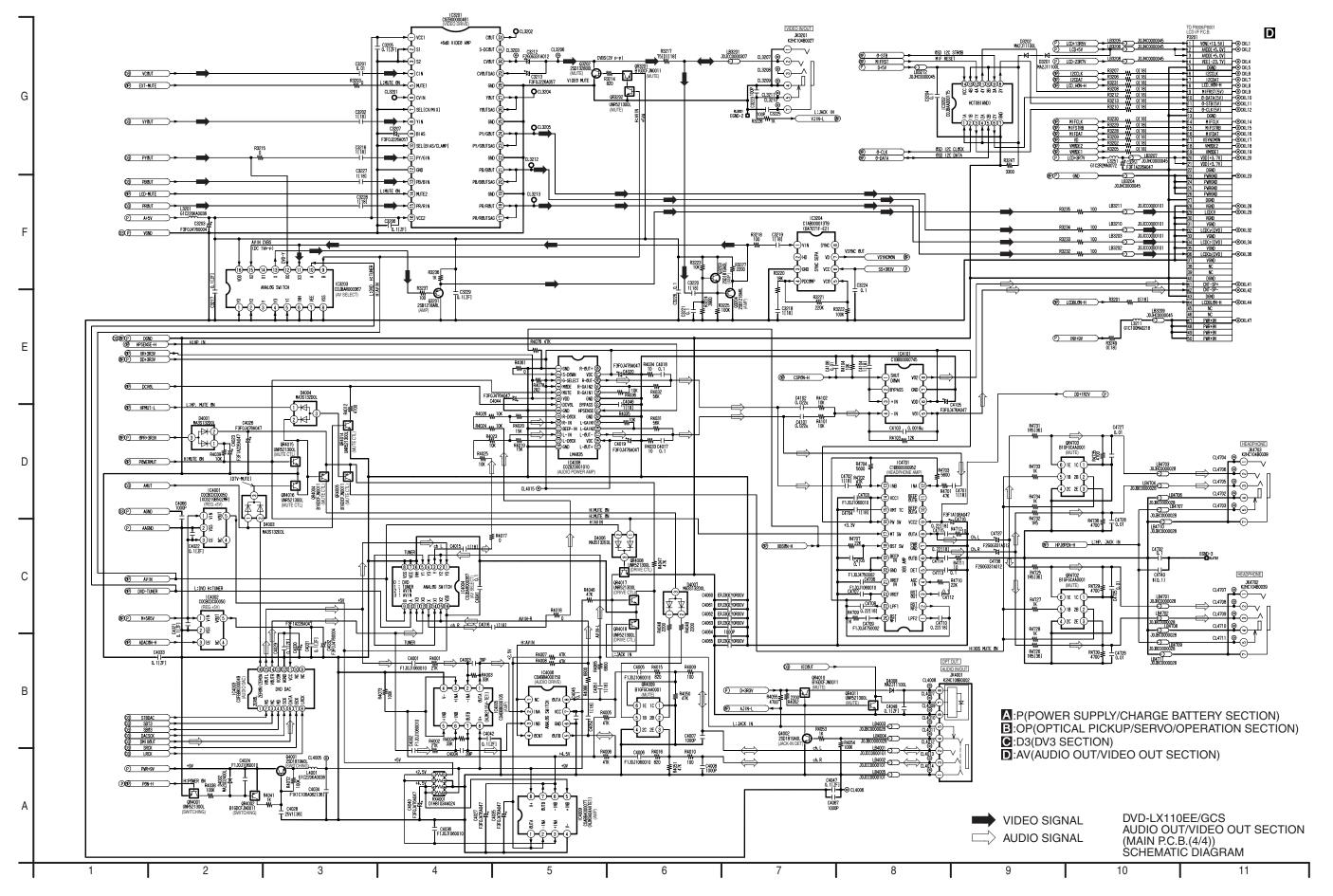


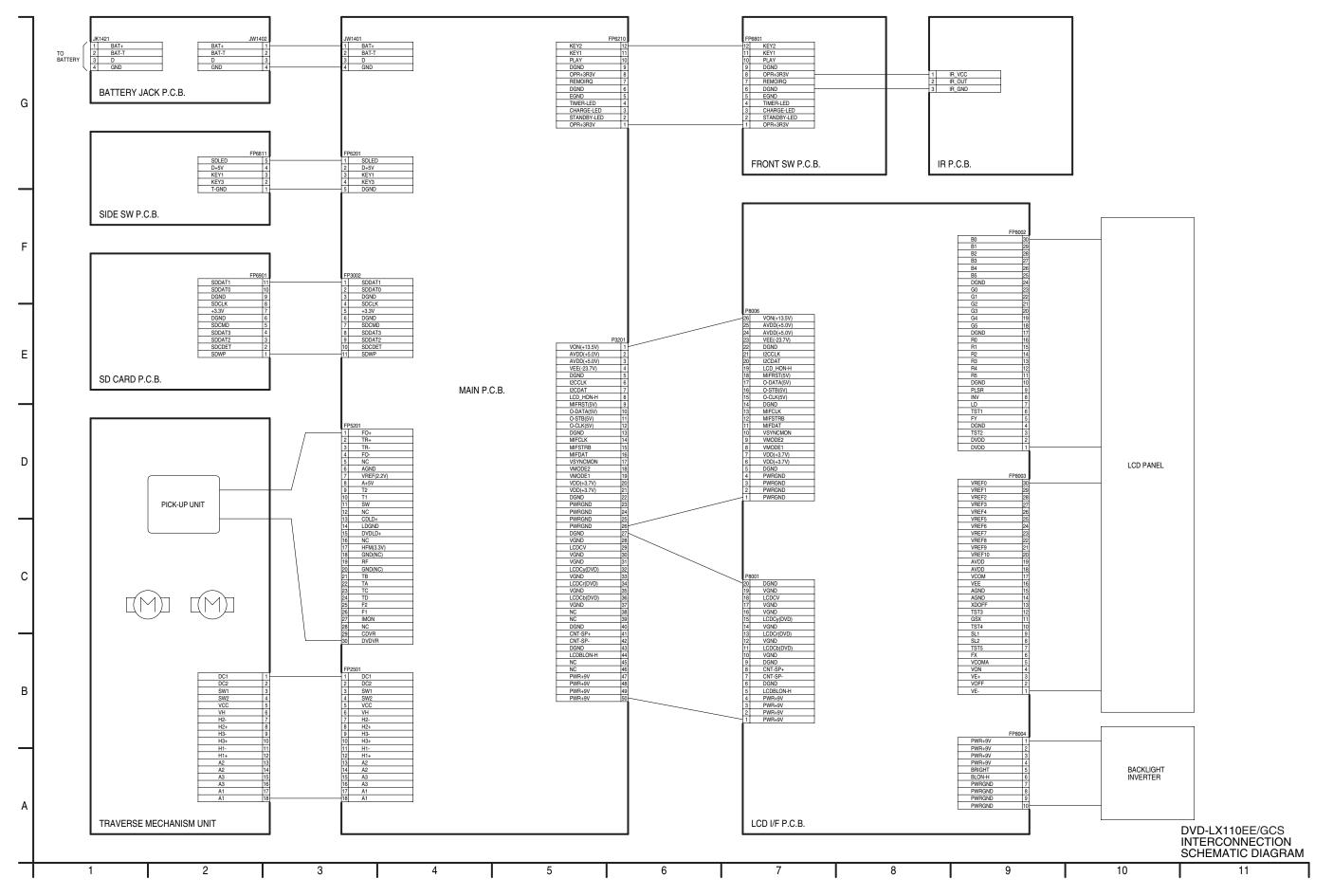


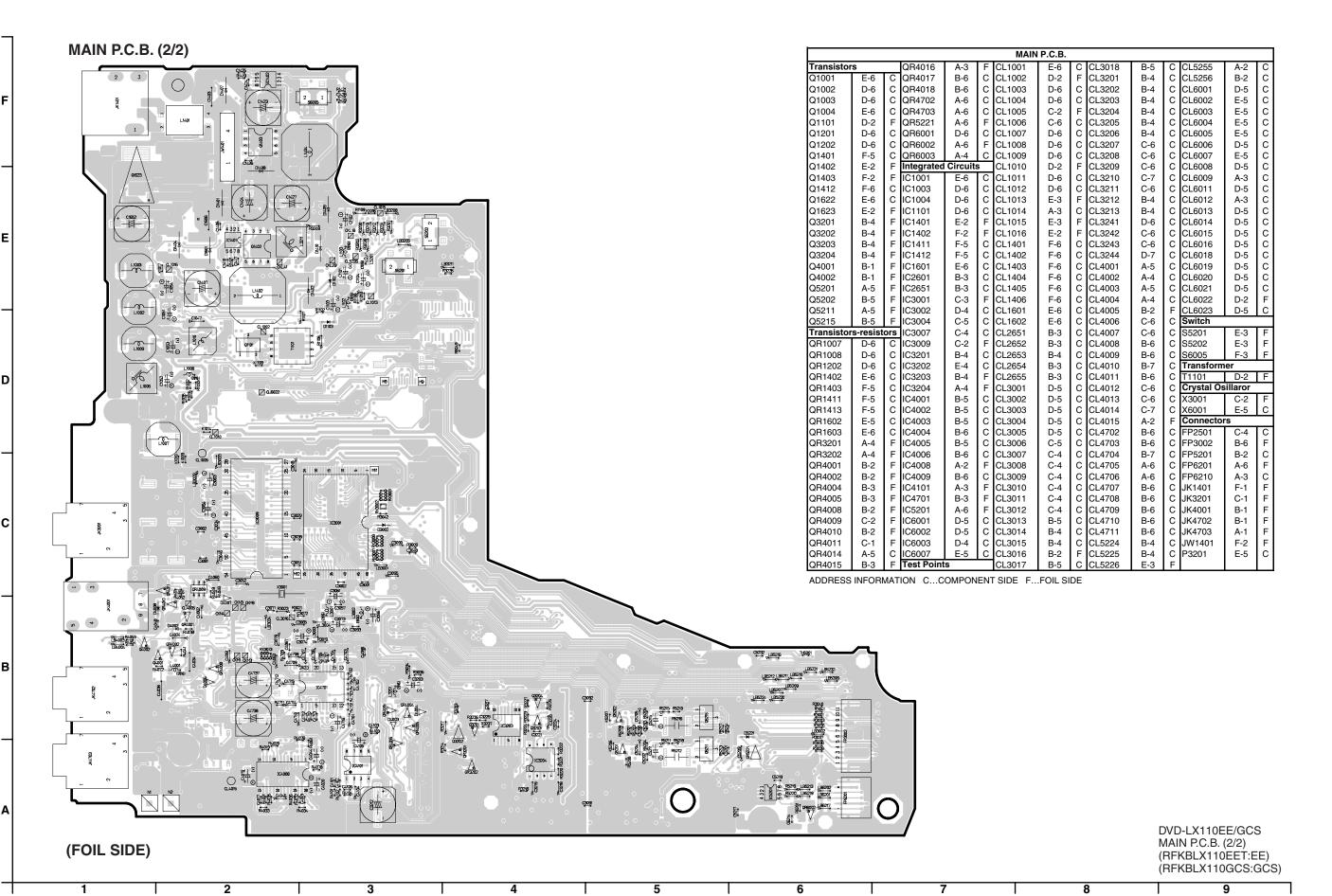


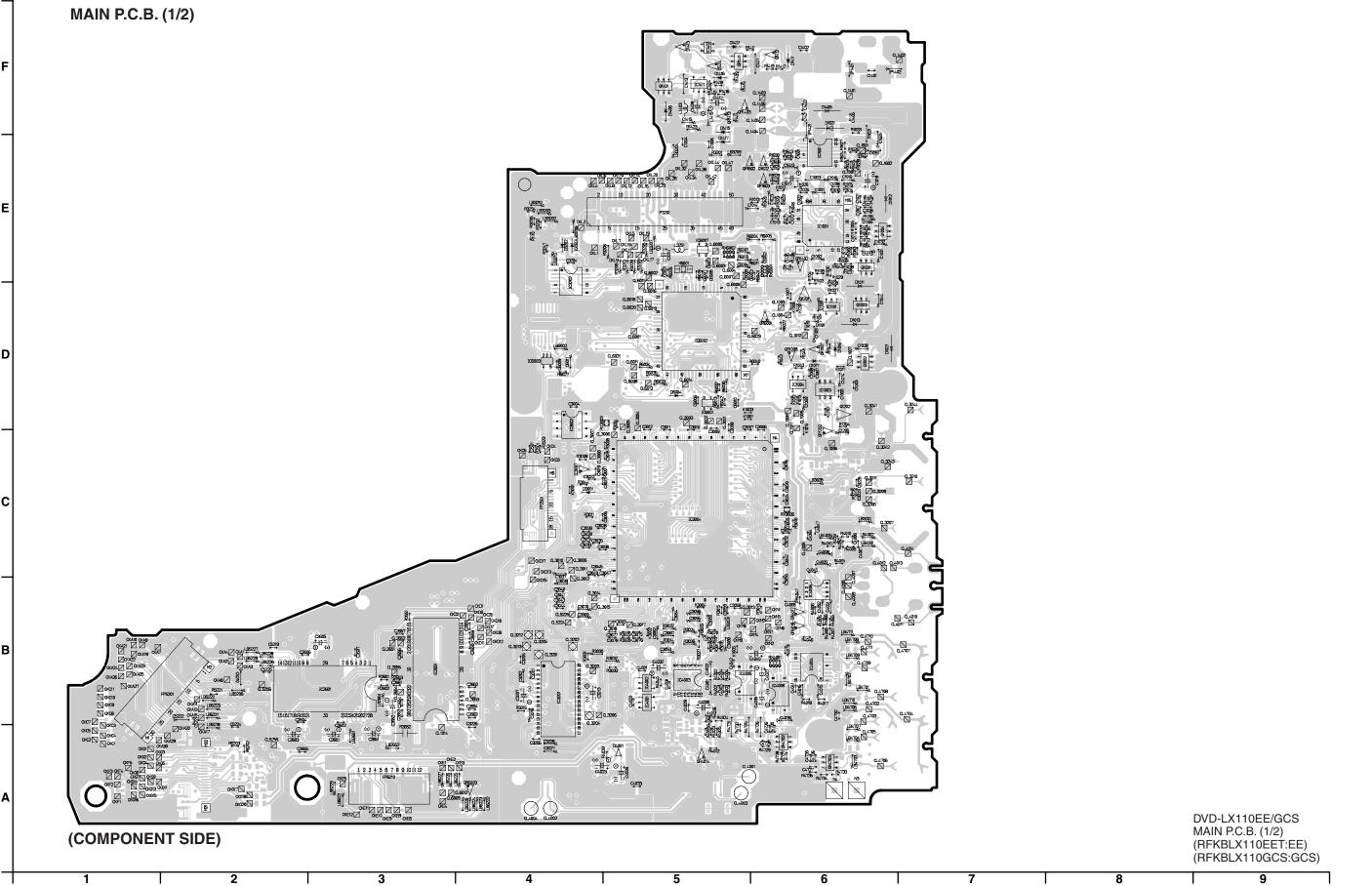










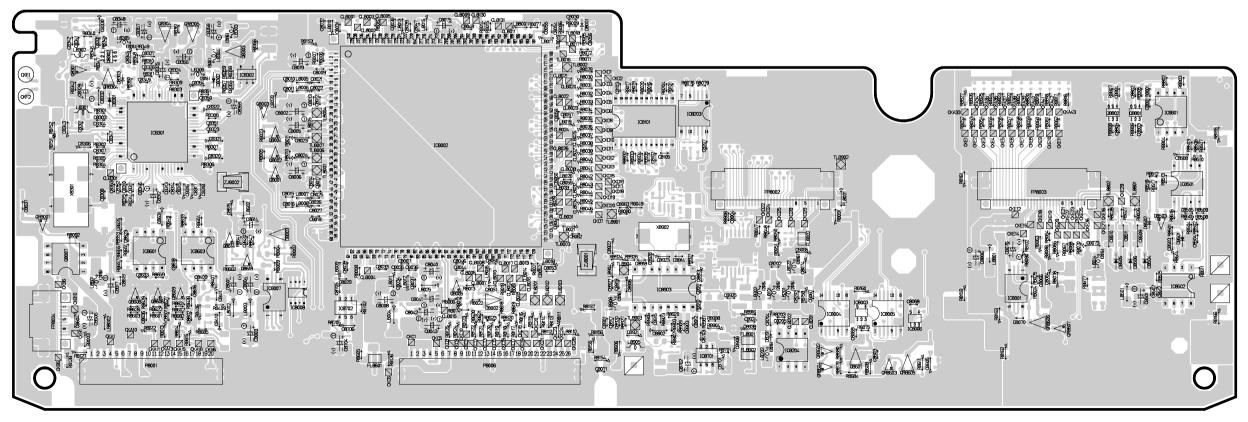


LCD P.C.B.																			
Transistors		Q8606	B-2	QR8603	A-7	IC8007	B-3	IC8702	B-3	CL8009	D-4	CL8022	C-4	CL8130	D-4	TL8016	C-4	TL8904	B-5
Q8001	C-3	Q8608	B-2	QR8604	A-6	IC8008	B-3	IC8801	C-8	CL8010	B-4	CL8023	C-4	CL8131	C-4	TL8017	C-4	Connectors	
Q8002	C-3	Q8609	B-2	QR8605	A-7	IC8101	C-5	IC8903	B-5	CL8011	C-4	CL8024	C-4	CL8201	B-6	TL8018	C-4	FP8002	B-6
Q8003	C-2	Q8614	B-2	QR8606	B-8	IC8203	C-5 Test Points		S	CL8012	B-4	CL8025	C-4	CL8202	B-6	TL8019	C-4	FP8003	B-8
Q8004	C-3	Q8618	B-2	QR8607	A-8	IC8204	A-6	CL8001	D-3	CL8013	B-4	CL8026	C-4	CL8301	C-1	TL8201	B-4	FP8004	B-1
Q8005	B-4	Q8801	C-8	8 Integrated Circuit		IC8301	C-2	CL8002	C-3	CL8014	B-4	CL8027	C-4	TL8001	C-3	TL8202	B-4	P8001	A-2
Q8007	B-1	Q8802	C-8	IC8001	B-7	IC8302	C-2	CL8003	D-3	CL8015	B-4	CL8028	C-4	TL8002	C-4	TL8203	B-4	P8006	A-4
Q8301	C-1	Transistor-resistor		IC8002	C-4	IC8501	B-9	CL8004	B-3	CL8016	B-4	CL8029	B-4	TL8003	B-4	TL8801	B-8		1 1
Q8302	C-1	QR8001	B-1	IC8003	B-6	IC8502	B-8	CL8005	D-3	CL8017	B-4	CL8031	B-4	TL8004	C-3	TL8802	B-8		1 1
Q8303	C-2	QR8304	C-1	IC8004	B-6	IC8601	B-2	CL8006	B-4	CL8018	B-4	CL8032	B-4	TL8005	C-3	TL8901	B-5		1 1
Q8304	C-2	QR8305	C-2	IC8005	B-7	IC8603	B-2	CL8007	B-4	CL8020	C-4	CL8033	B-4	TL8006	C-3	TL8902	C-6		1 1
Q8601	A-6	QR8602	A-6	IC8006	B-7	IC8701	A-5	CL8008	B-4	CL8021	C-4	CL8034	B-4	TL8007	C-3	TL8903	A-5		

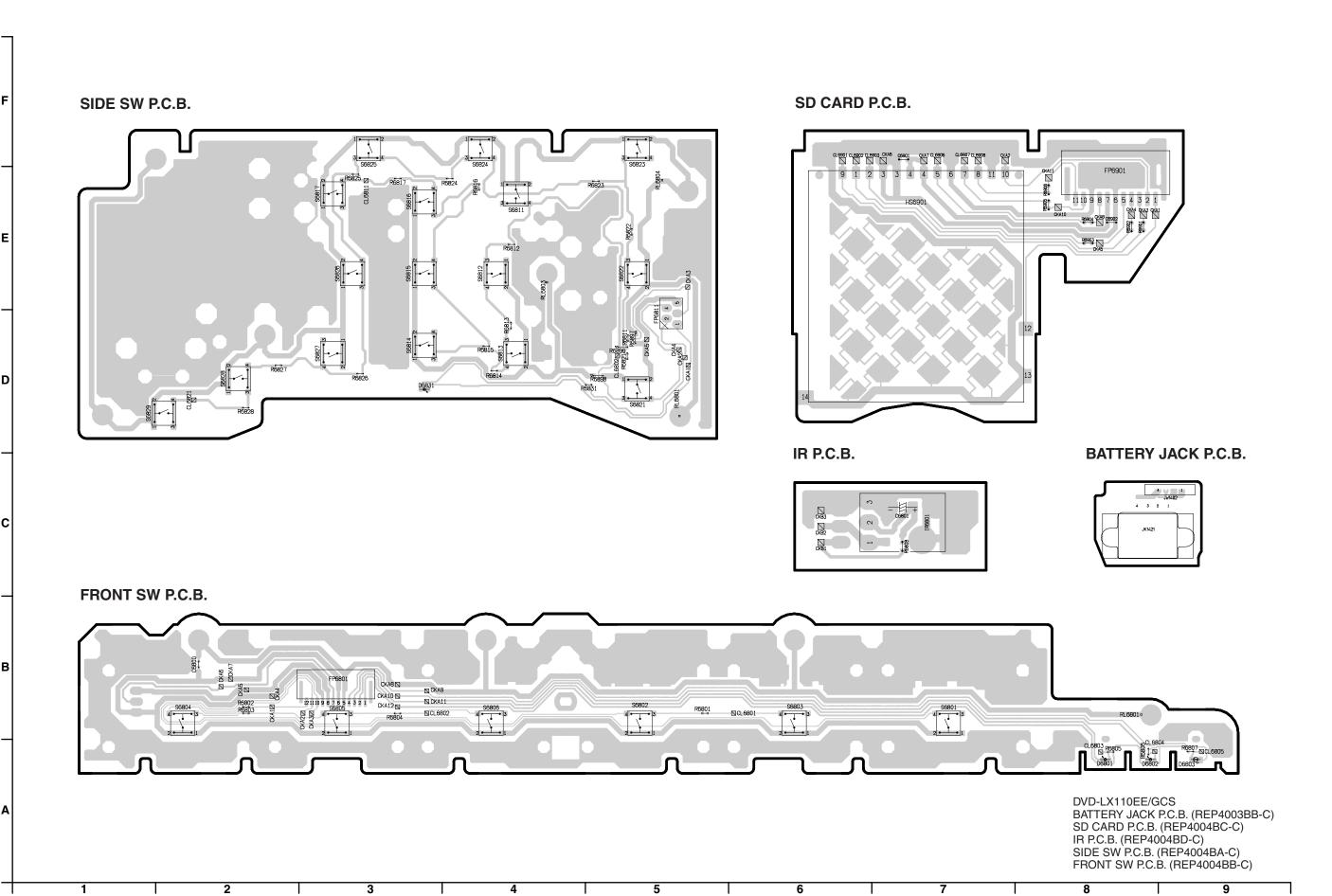
ADDRESS INFORMATION

#### LCD P.C.B.

В



DVD-LX110EE/GCS LCD P.C.B. (REP4008B-1C)



### Warning for Customers Who Use the DivX Video-on-Demand content.

- 1. The registration code has been changed for the repair of the product or the product exchange.
- 2. Obtain and register a new registration code, otherwise you will no longer be able to play DivX Video-on-Demand content.
- 3. Follow the procedure on the DivX Video-on-Demand web site to register at http://vod.divx.com/.
  - \* If you do not use the DivX Video-on-Demand content, please ignore this warning.

